

FIG. 1

EXAMPLE 1 (PARALLEL DIRECTION)

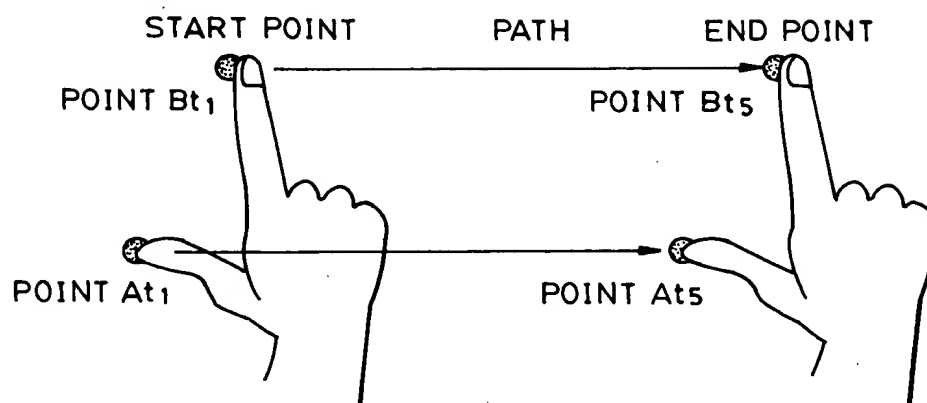


FIG. 2A

EXAMPLE 2 (INWARD DIRECTION)

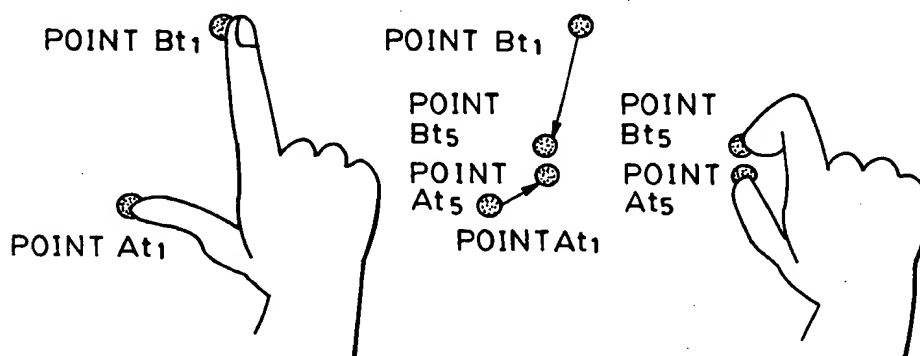


FIG. 2B

EXAMPLE 3 (OUTWARD DIRECTION)

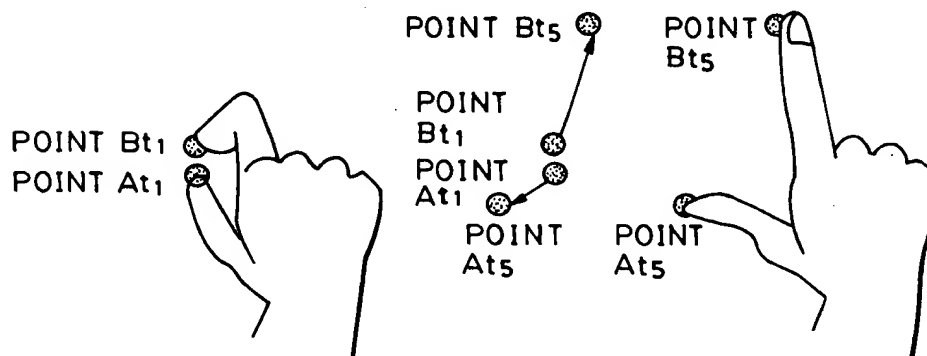


FIG. 2C

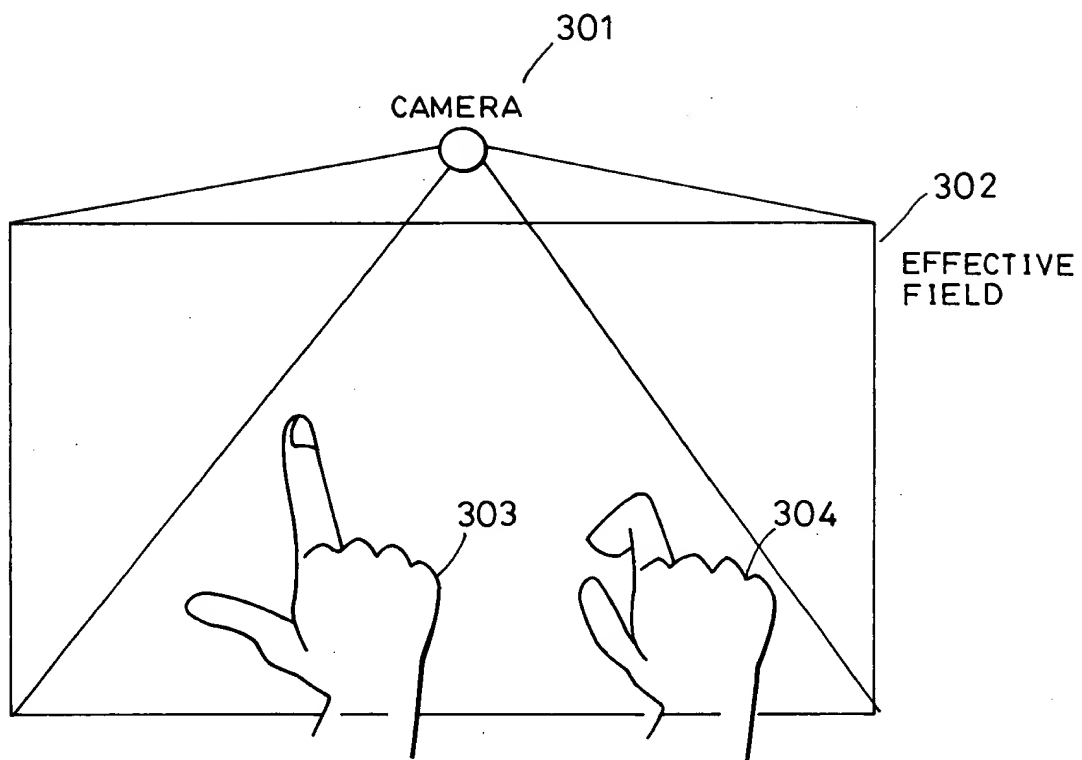


FIG. 3

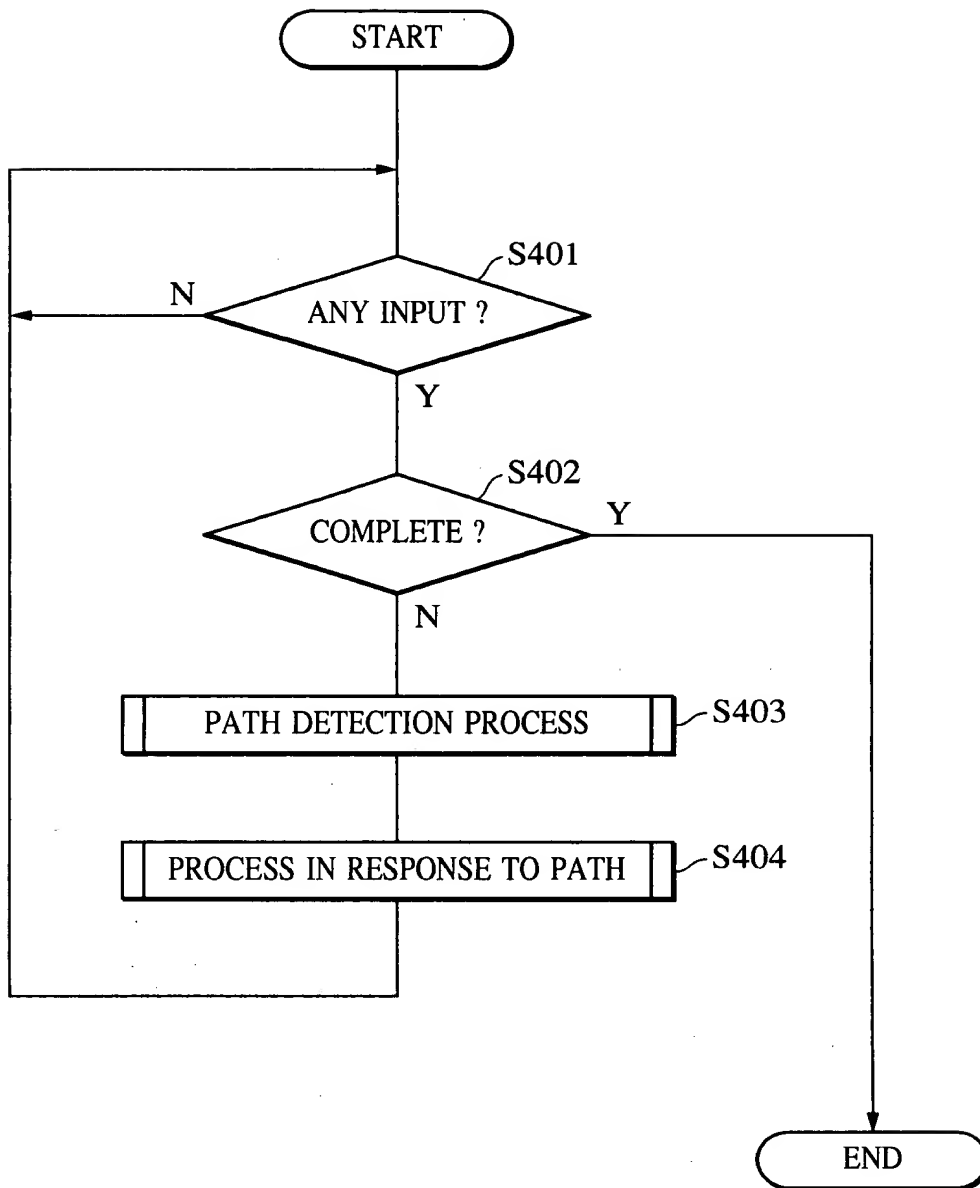


FIG. 4

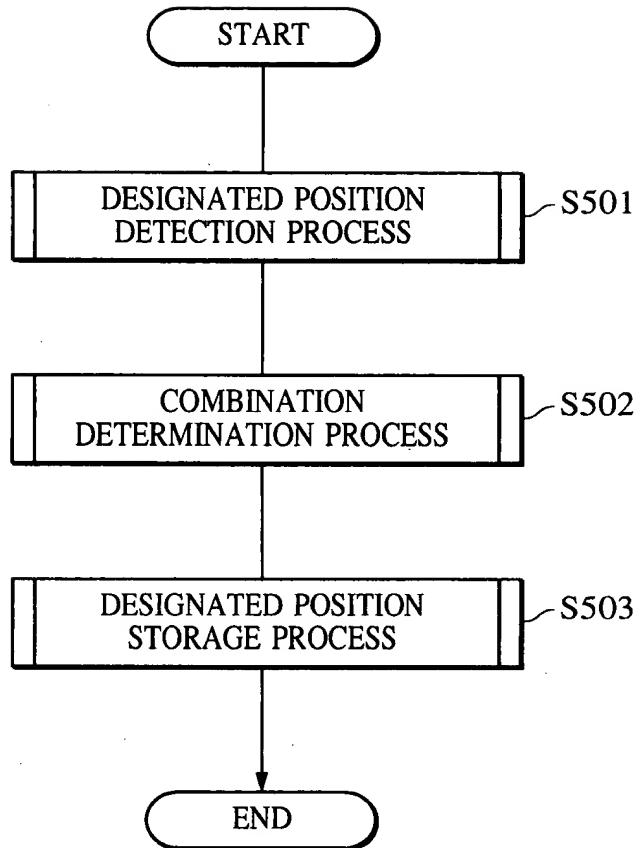


FIG. 5

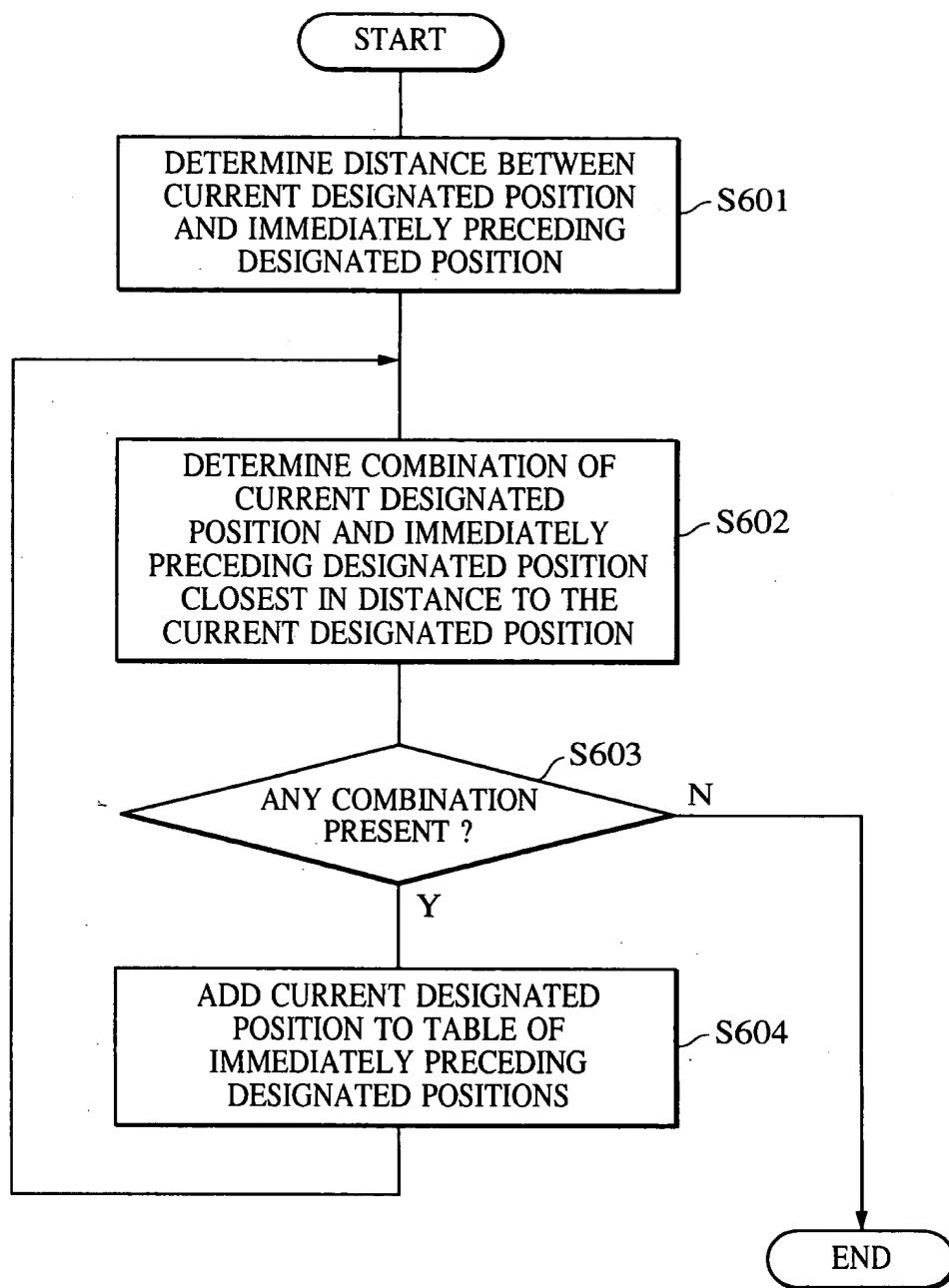


FIG. 6

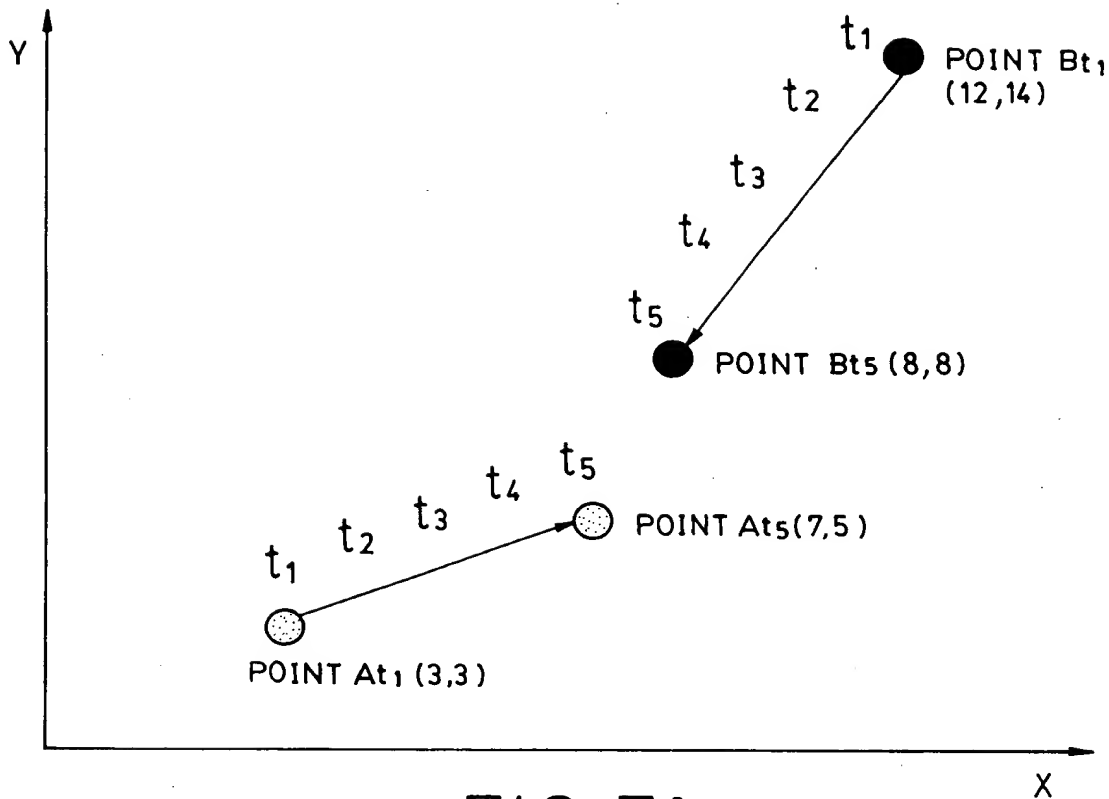


FIG. 7A

TABLE STORING POSITION DATA

POSITION COORDINATE
DATA AT POINT A

	X	Y
t ₁	3	3
t ₂	4	3.5
t ₃	5	4
t ₄	6	4.5
t ₅	7	5

702

POSITION COORDINATE
DATA AT POINT B

	X	Y
t ₁	12	14
t ₂	11	12.5
t ₃	10	11
t ₄	9	10
t ₅	8	9

703

FIG. 7B

FIG. 7C

FIG. 8A

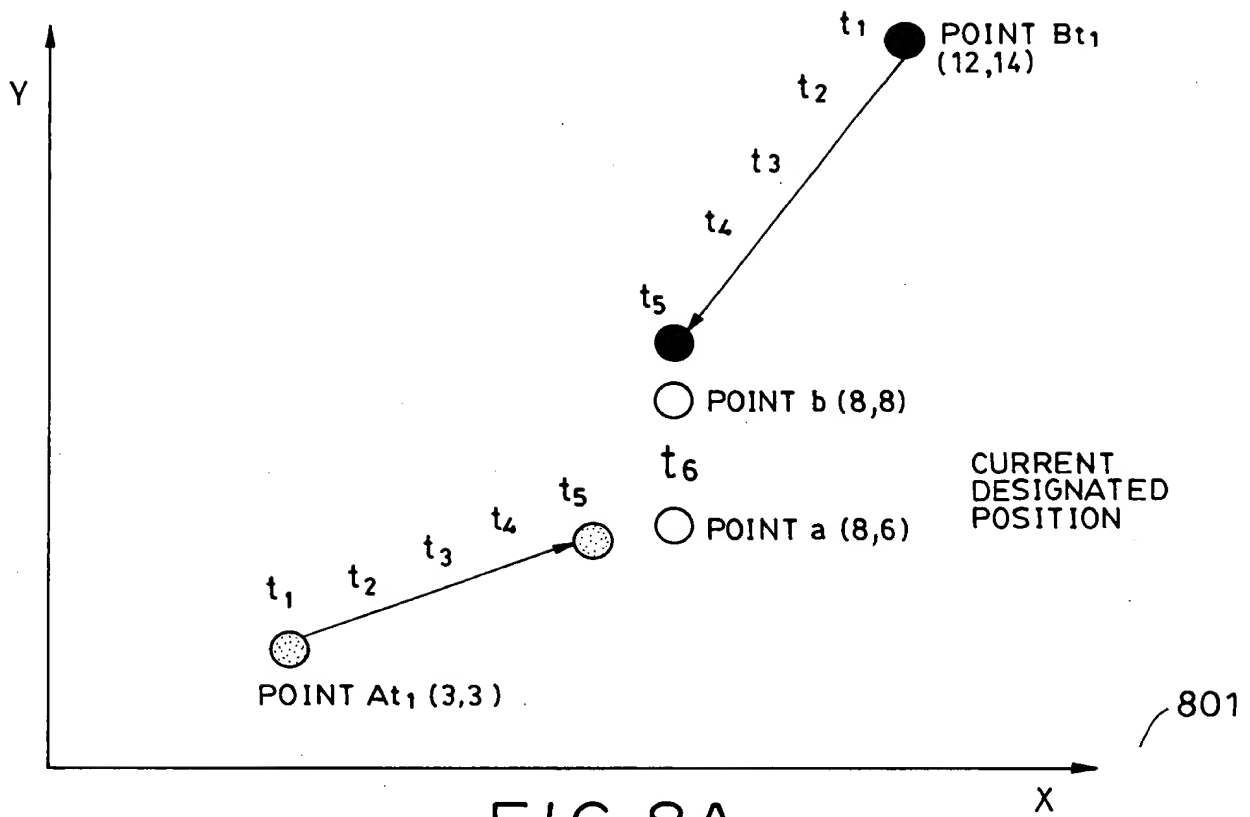


FIG. 8A

CURRENT DESIGNATED
POSITION DATA (AT t₆)

	X	Y
a	8	6
b	8	8

802

FIG. 8B

CURRENT DESIGNATED
POSITION DATA

	X	Y
a	8	6
b	8	8

901

FIG. 9A



DISTANCE TO IMMEDIATELY PRECEDING DESIGNATED POSITION

902

	X	Y	DISTANCE TO DESIGNATED POSITION A	DISTANCE TO DESIGNATED POSITION B
a	8	6	1.414	4.123
b	8	8	3.601	1.000

FIG. 9B



DESIGNATED POSITION DATA
AT EACH TIME POINT

903

	X	Y
t ₁	3	3
t ₂	4	3.5
t ₃	5	4
t ₄	6	4.5
t ₅	7	5
t ₆	8	6

FIG. 9C

904

	X	Y
t ₁	12	14
t ₂	11	12.5
t ₃	10	11
t ₄	9	10
t ₅	8	9
t ₆	8	8

FIG. 9D

FIG. 10

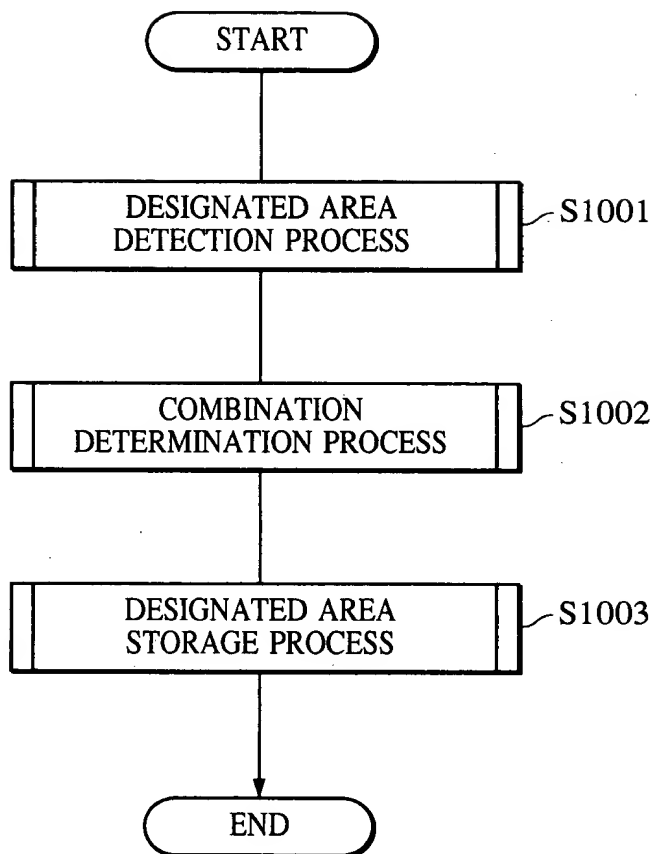


FIG. 10

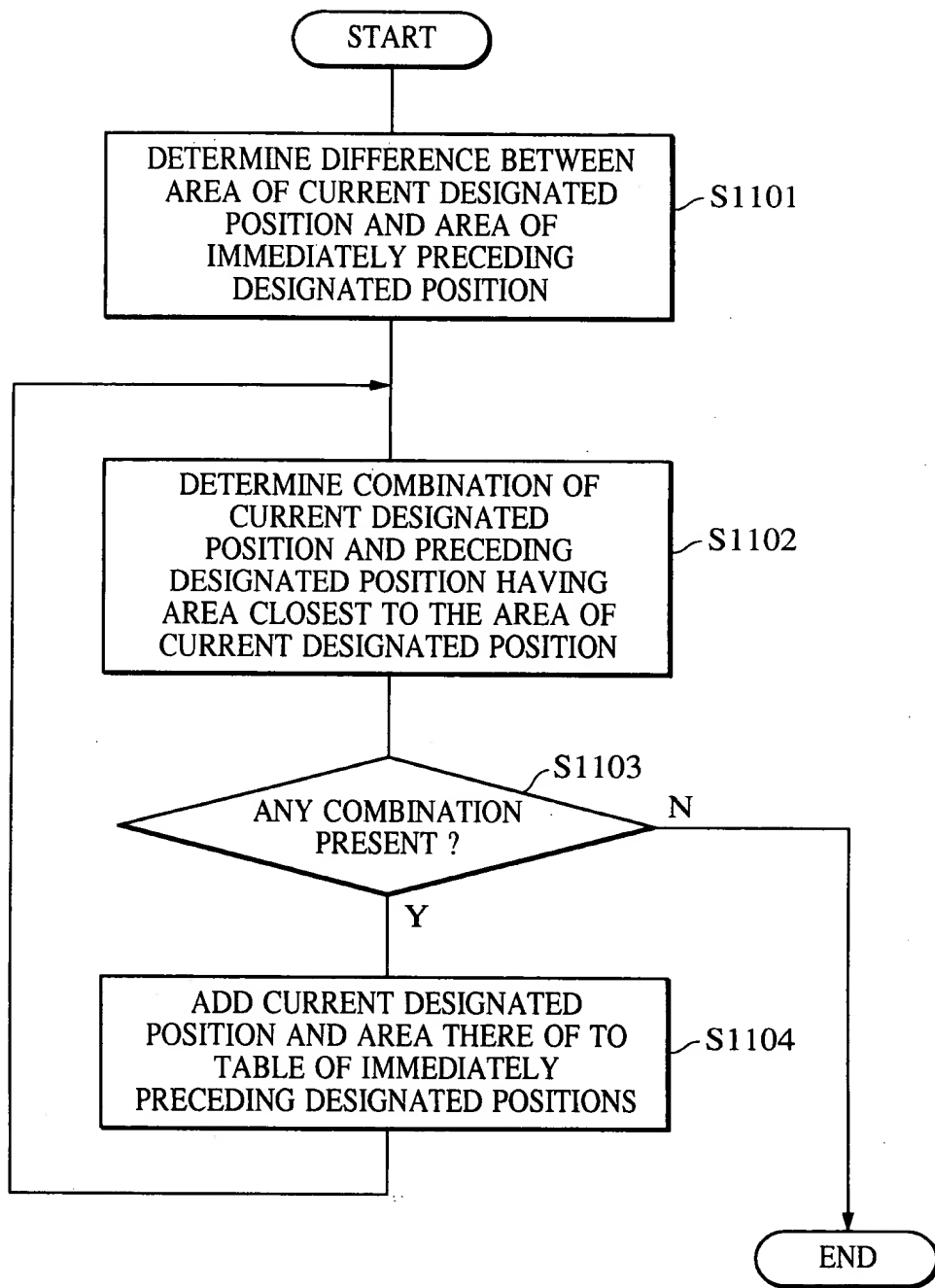


FIG. 11

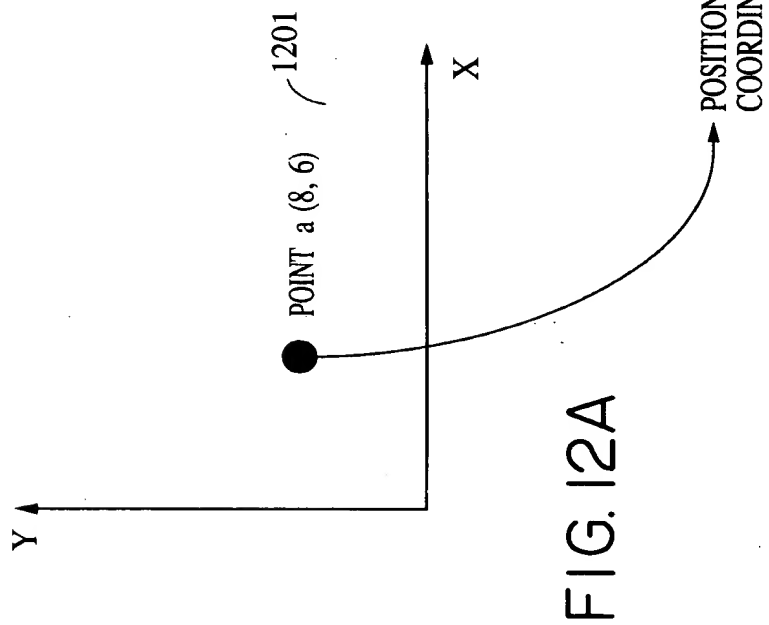


FIG. 12A

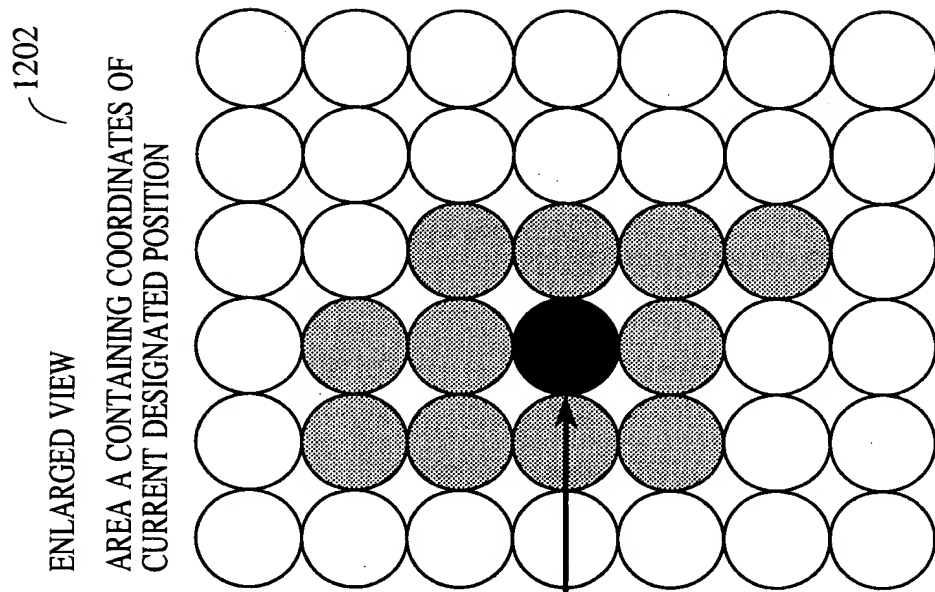


FIG. 12B

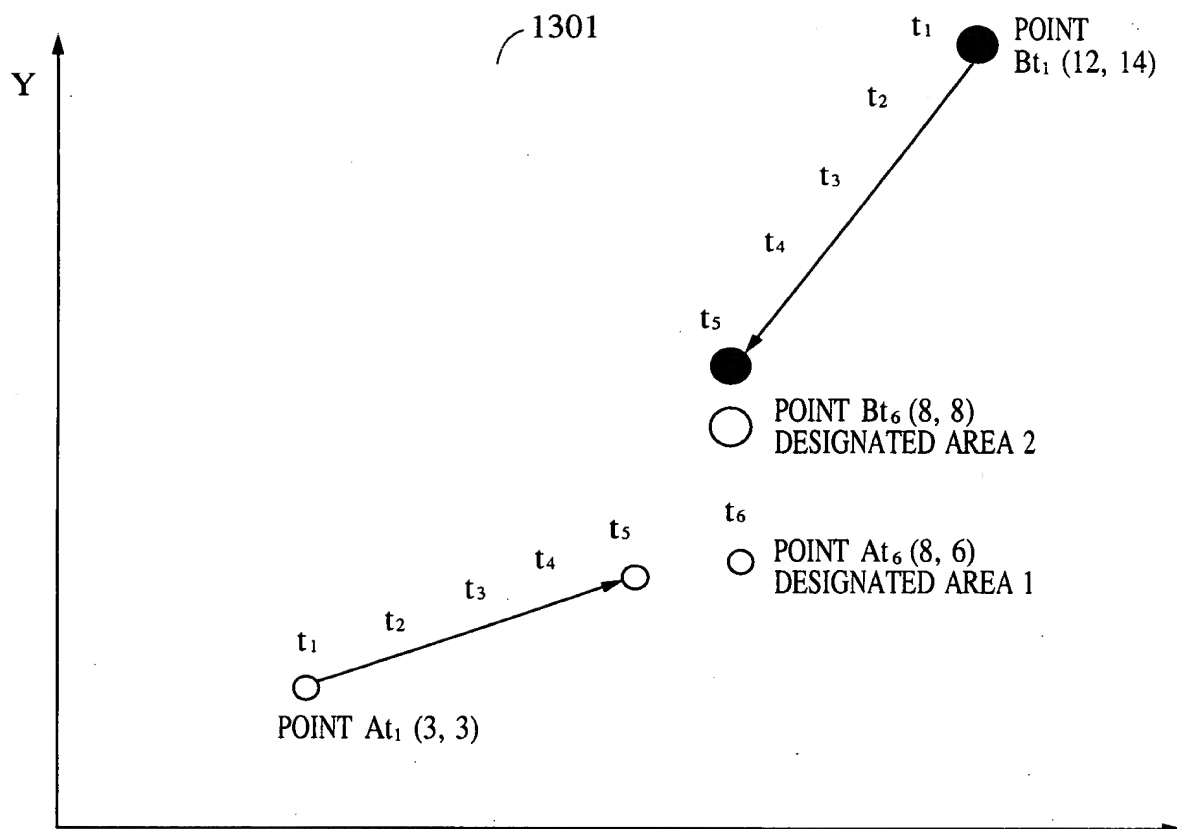


FIG. 13A

TABLES STORING DESIGNATED AREA DATA

AREA DATA AT POINT A

	X	Y	AREA
t ₁	3	3	12.5
t ₂	4	3.5	12.2
t ₃	5	4	12.5
t ₄	6	4.5	12.0
t ₅	7	5	11.0

FIG. 13B

AREA DATA AT POINT B

	X	Y	AREA
t ₁	12	14	19.5
t ₂	11	12.5	19.5
t ₃	10	11	20.0
t ₄	9	10	20.0
t ₅	8	9	20.0

FIG. 13C

CURRENT DESIGNATED AREA DATA (AT t₆)

	X	Y	AREA
a	8	6	11.5
b	8	8	20.0

FIG. 13D

CURRENT AREA DATA (AT t_6)

	X	Y	AREA
a	8	6	11.5
b	8	8	20.0

1401

FIG. 14A



DIFFERENCE BETWEEN CURRENT AND IMMEDIATELY PRECEDING DESIGNATED AREAS

	X	Y	AREA	DIFFERENCE FROM DESIGNATED AREA A	DIFFERENCE FROM DESIGNATED AREA B
a	8	6	11.5	0.5	9.0
b	8	8	20.0	9.0	0.5

1402

FIG. 14B



TABLES STORING DESIGNATED AREA DATA

	X	Y	AREA
t_1	3	3	12.5
t_2	4	3.5	12.2
t_3	5	4	12.5
t_4	6	4.5	12.0
t_5	7	5	11.0
t_6	8	6	11.5

1403

FIG. 14C

	X	Y	AREA
t_1	12	14	19.5
t_2	11	12.5	19.5
t_3	10	11	20.0
t_4	9	10	20.0
t_5	8	9	20.0
t_6	8	8	20.5

1404

FIG. 14D

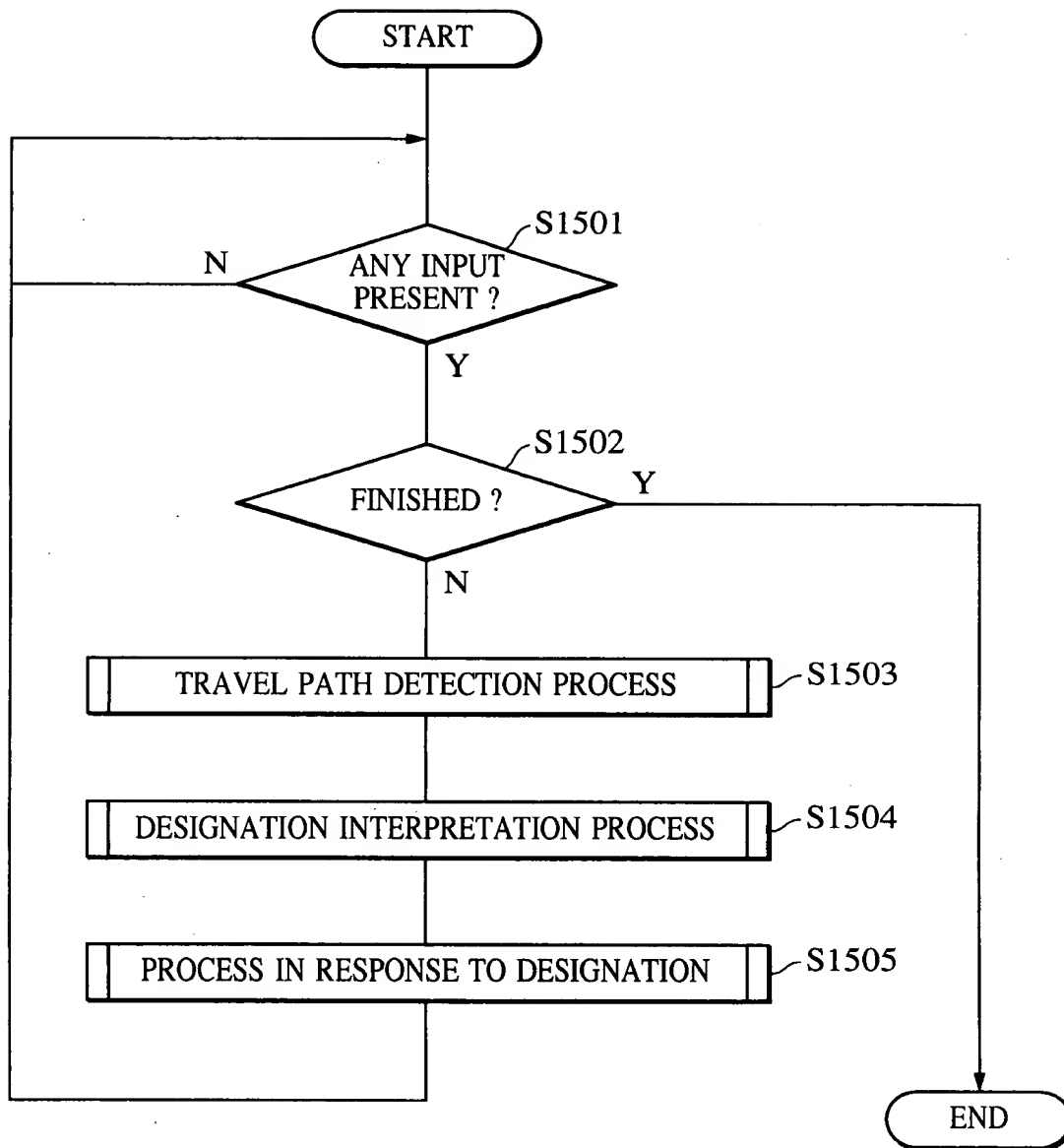


FIG. 15

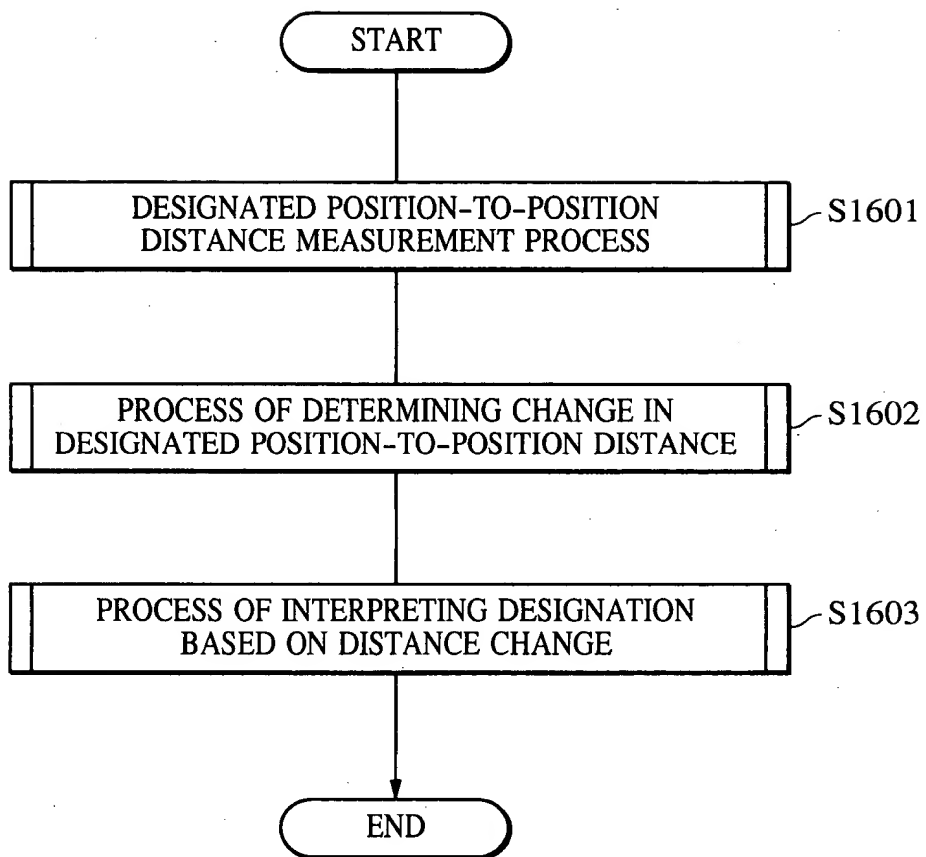


FIG. 16

FIG. 17

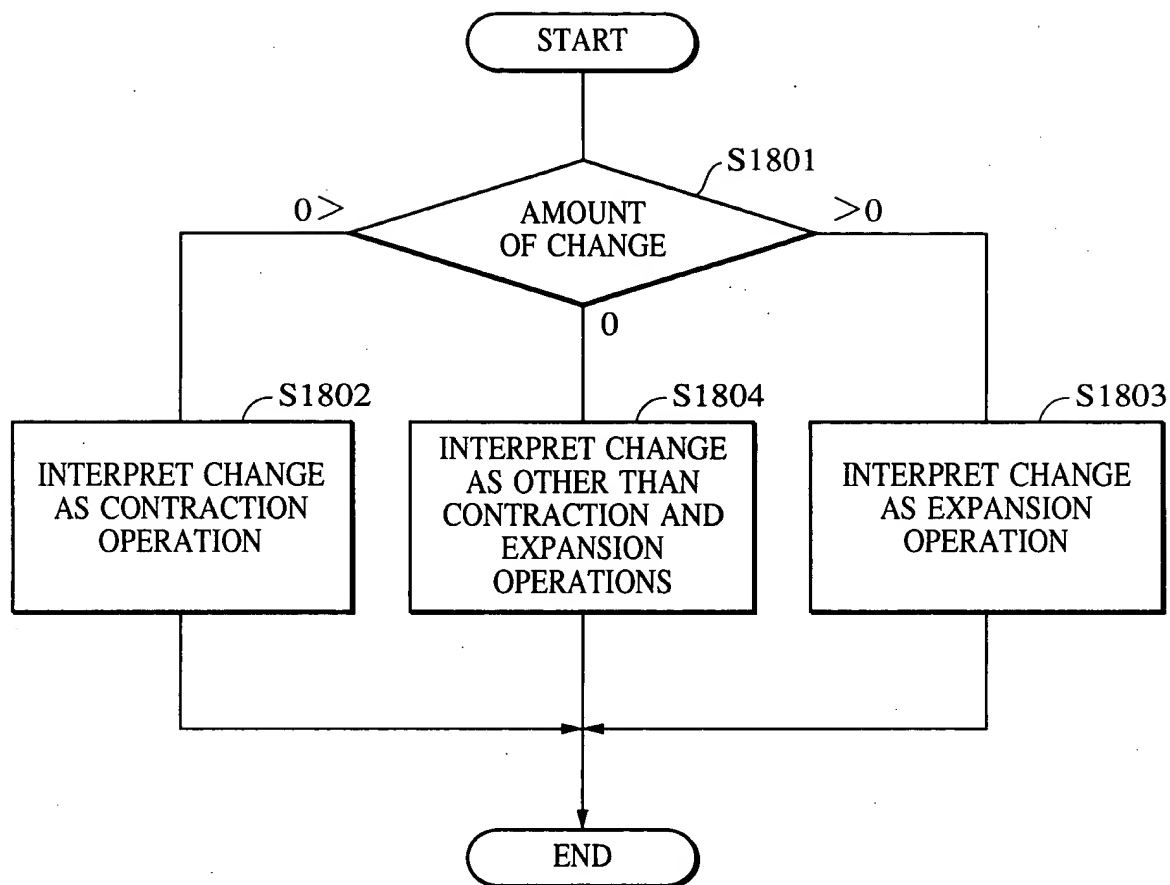
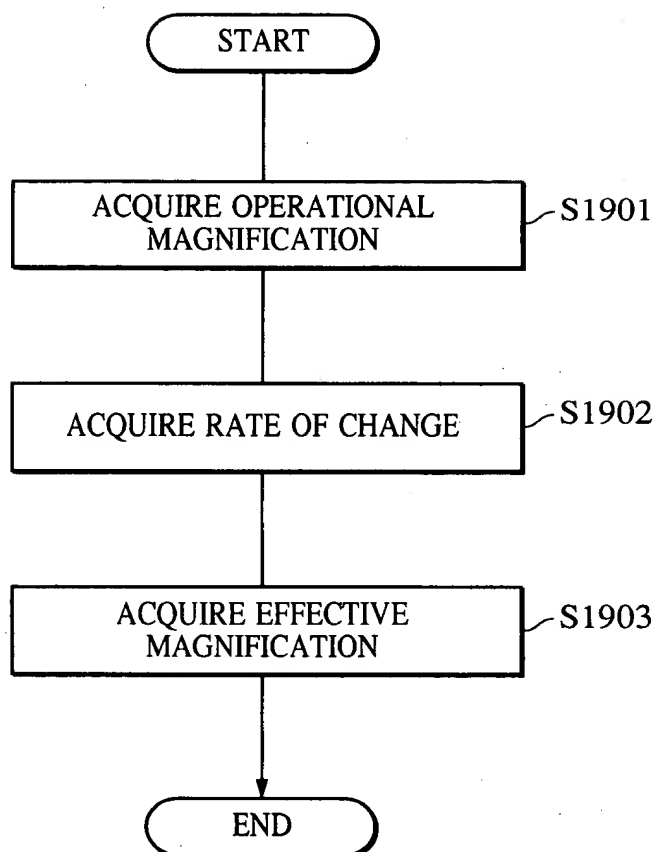


FIG. 18

FIG. 19



$$\text{EFFECTIVE MAGNIFICATION} = 100 - (100 - \text{OPERATIONAL MAGNIFICATION}) \times \text{RATE OF CHANGE } \alpha$$

FIG. 19

CONTRACTION OPERATION

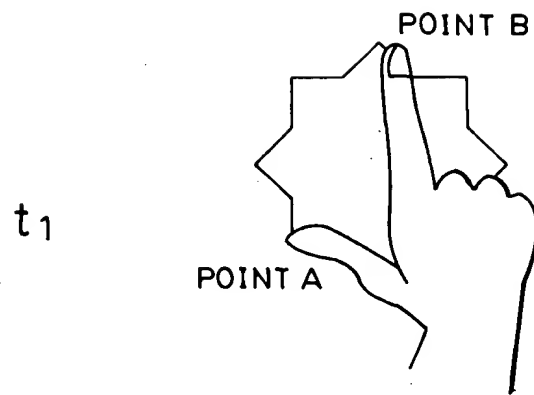


FIG. 20A

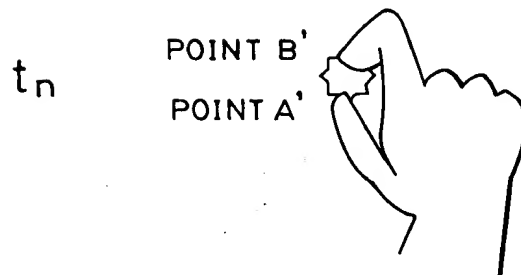


FIG. 20B

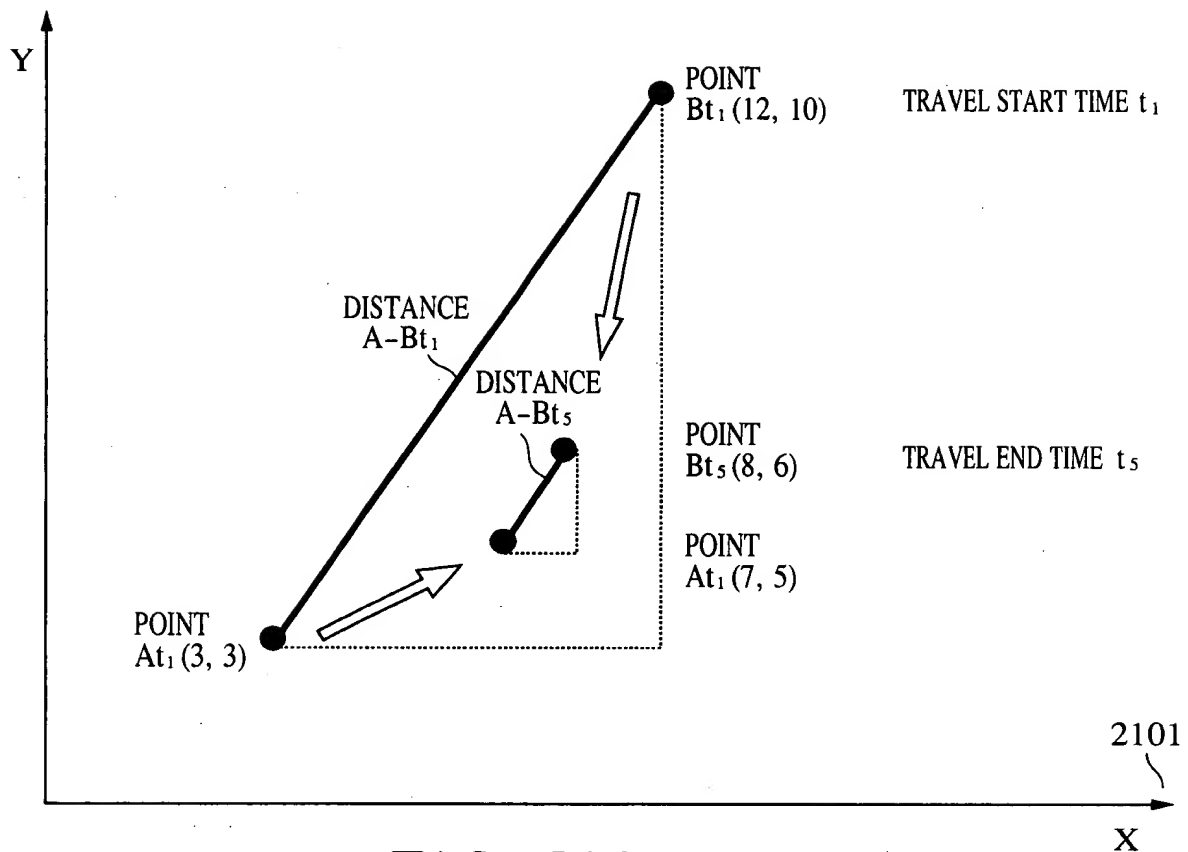


FIG. 21A

DISTANCE BETWEEN DESIGNATED POSITIONS A AND B,
AND AMOUNT OF CHANGE

	DISTANCE BETWEEN A AND B	MAGNIFICATION (DISTANCE t_n /DISTANCE t_1)
t_1	15.000	100%
t_2	11.011	73%
t_3	7.810	52%
t_4	3.905	26%
t_5	1.118	7%

2102

FIG. 21B

EXPANSION OPERATION

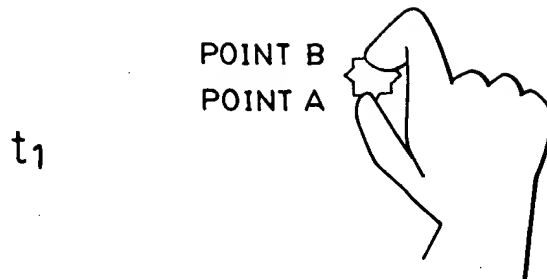


FIG. 22A

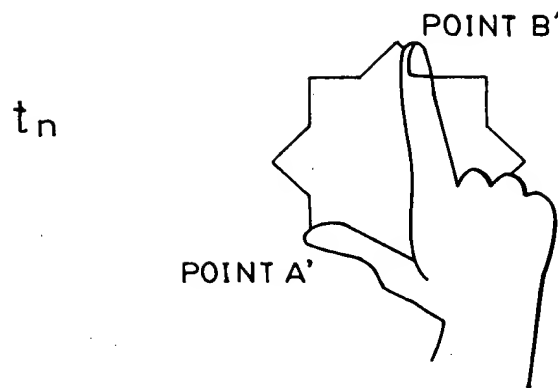


FIG. 22B

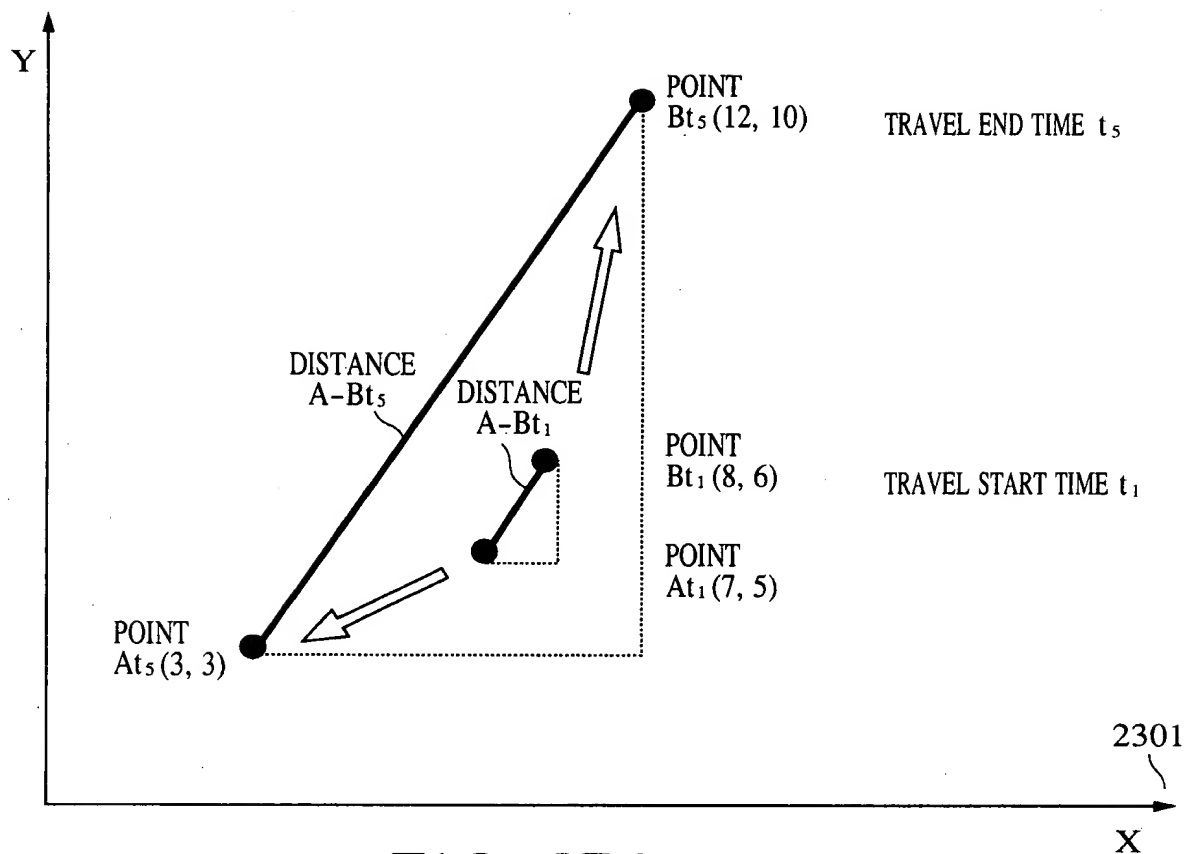


FIG. 23A

DISTANCE BETWEEN DESIGNATED POSITIONS A AND B,
AND AMOUNT OF CHANGE

	DISTANCE BETWEEN A AND B	MAGNIFICATION (DISTANCE t_n /DISTANCE t_1)
t_1	1.118	100%
t_2	4.081	365%
t_3	7.080	633%
t_4	9.552	854%
t_5	11.402	1020%

FIG. 23B

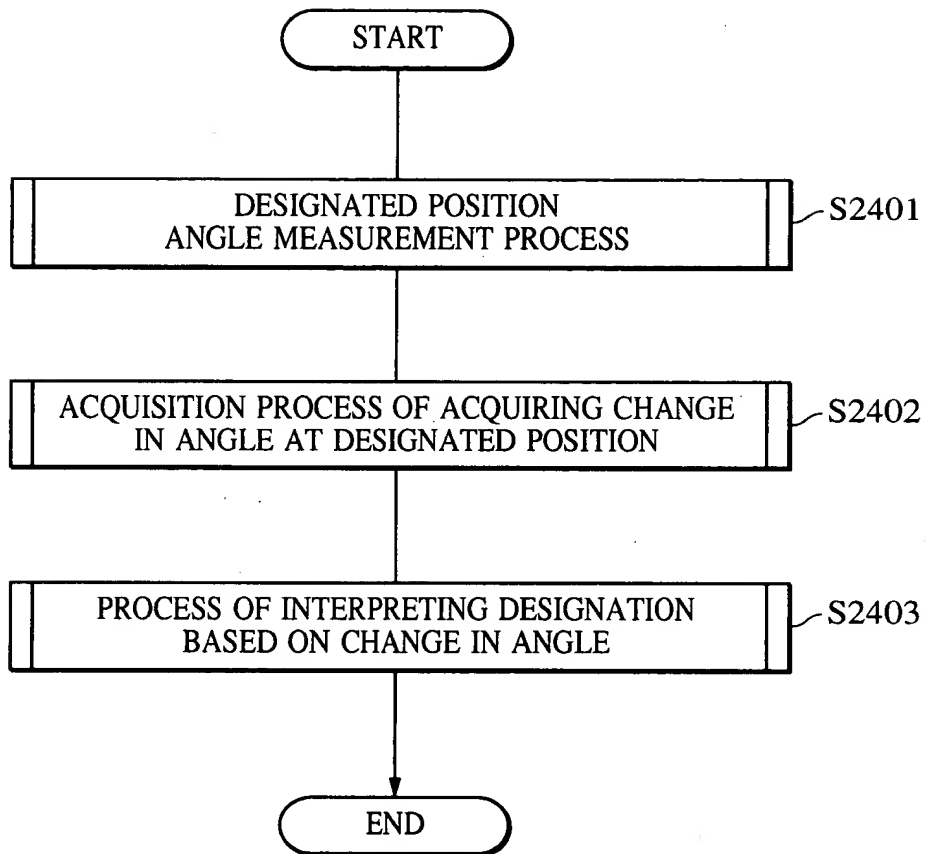


FIG. 24

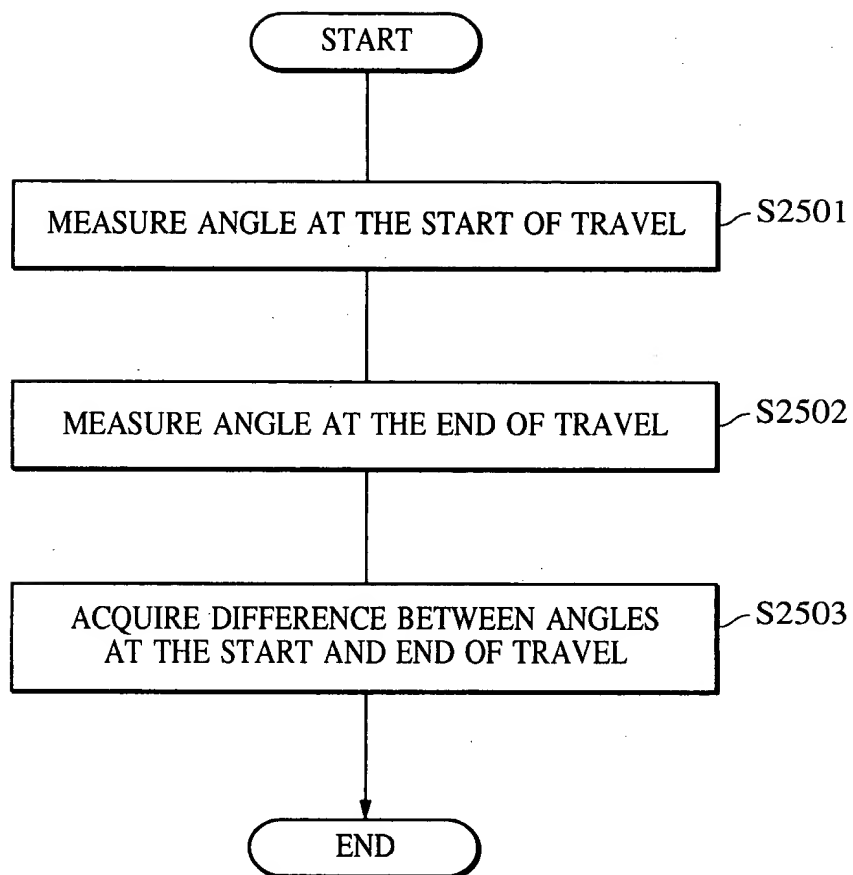


FIG. 25

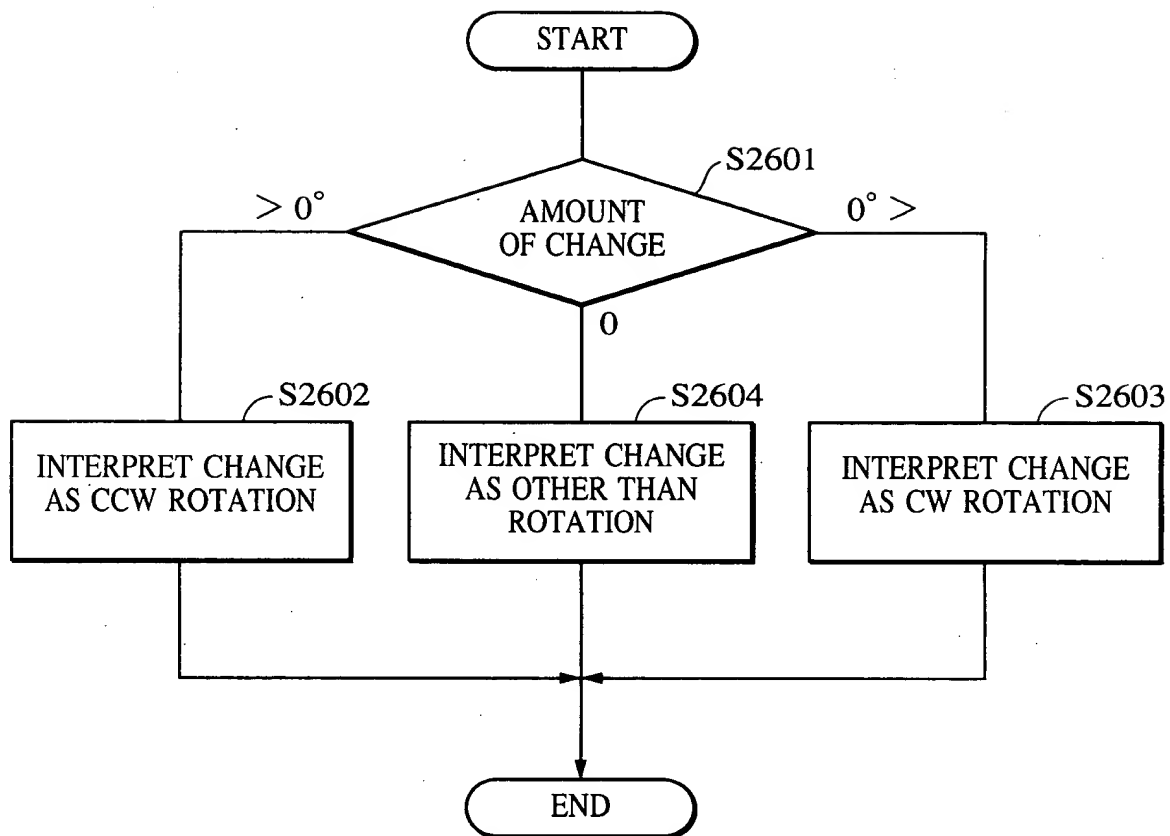


FIG. 26

CW ROTATION

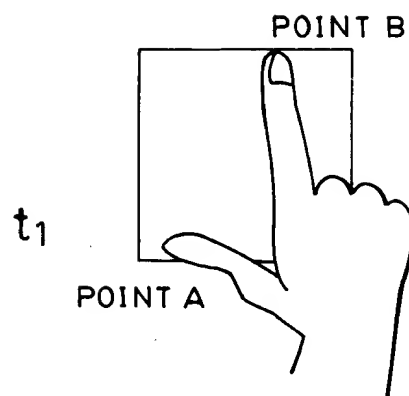


FIG. 27A

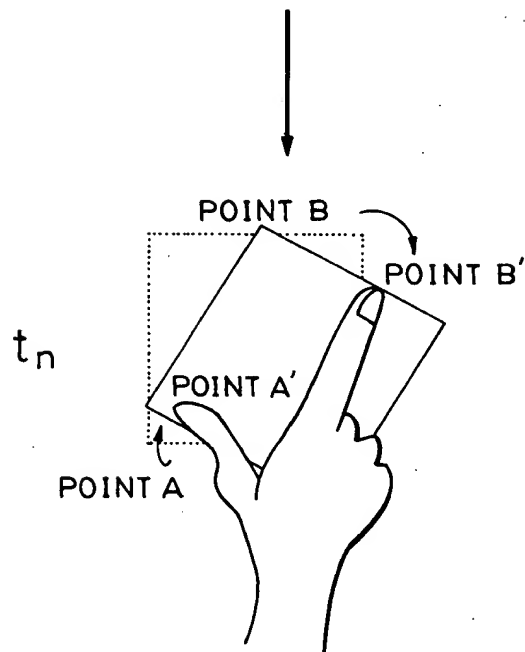


FIG. 27B

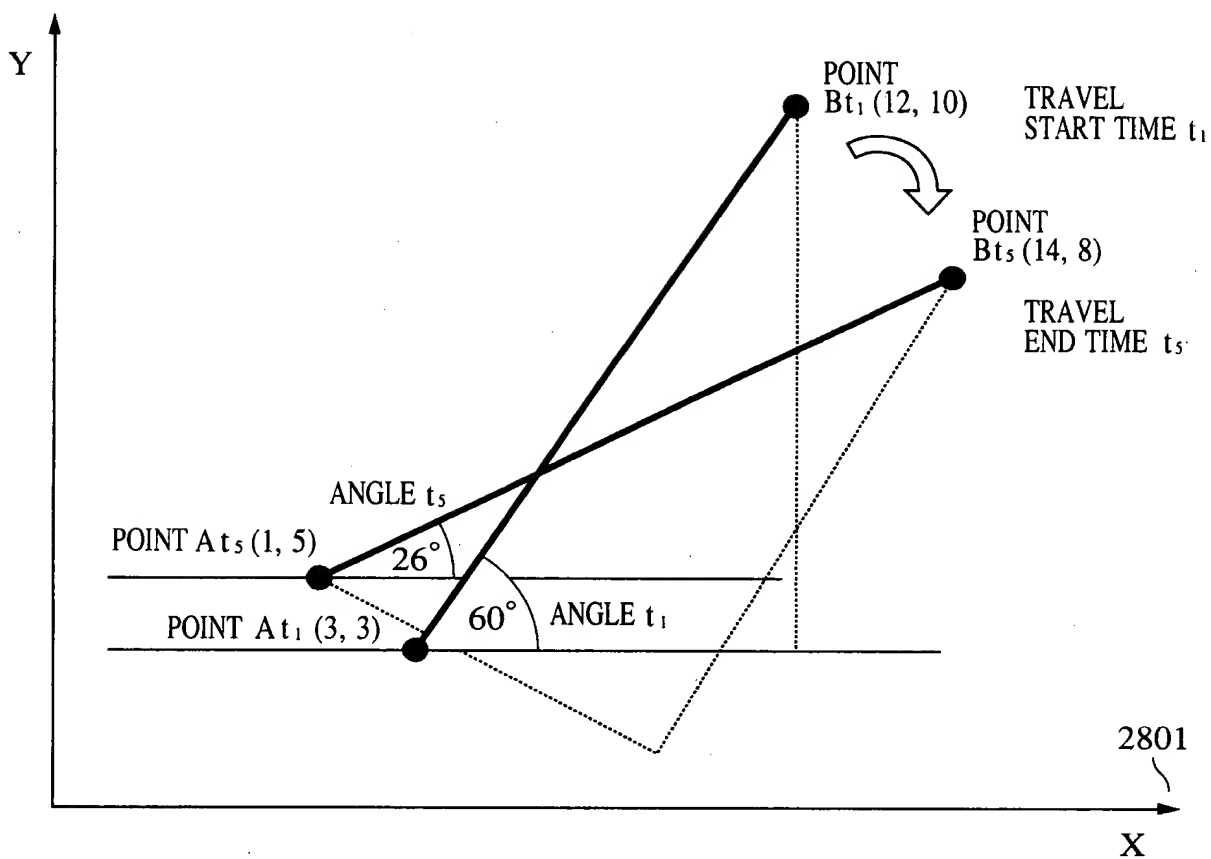


FIG. 28A

ANGLE OF DESIGNATED POSITIONS A AND B,
AND AMOUNT OF CHANGE

	ANGLE OF LINE AB	AMOUNT OF CHANGE ($t_n - t_1$)
t_1	60	0
t_2	49	-11
t_3	40	-20
t_4	33	-27
t_5	26	-34

2802

FIG. 28B

CCW ROTATION

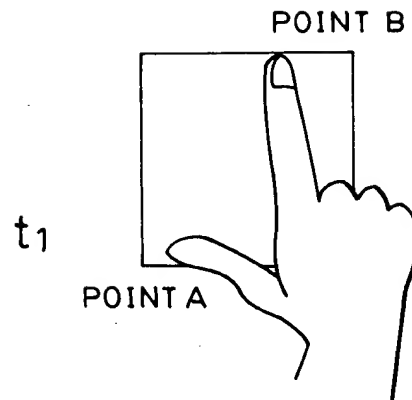


FIG. 29A

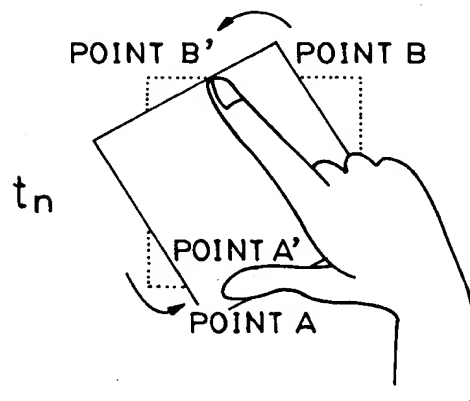


FIG. 29B

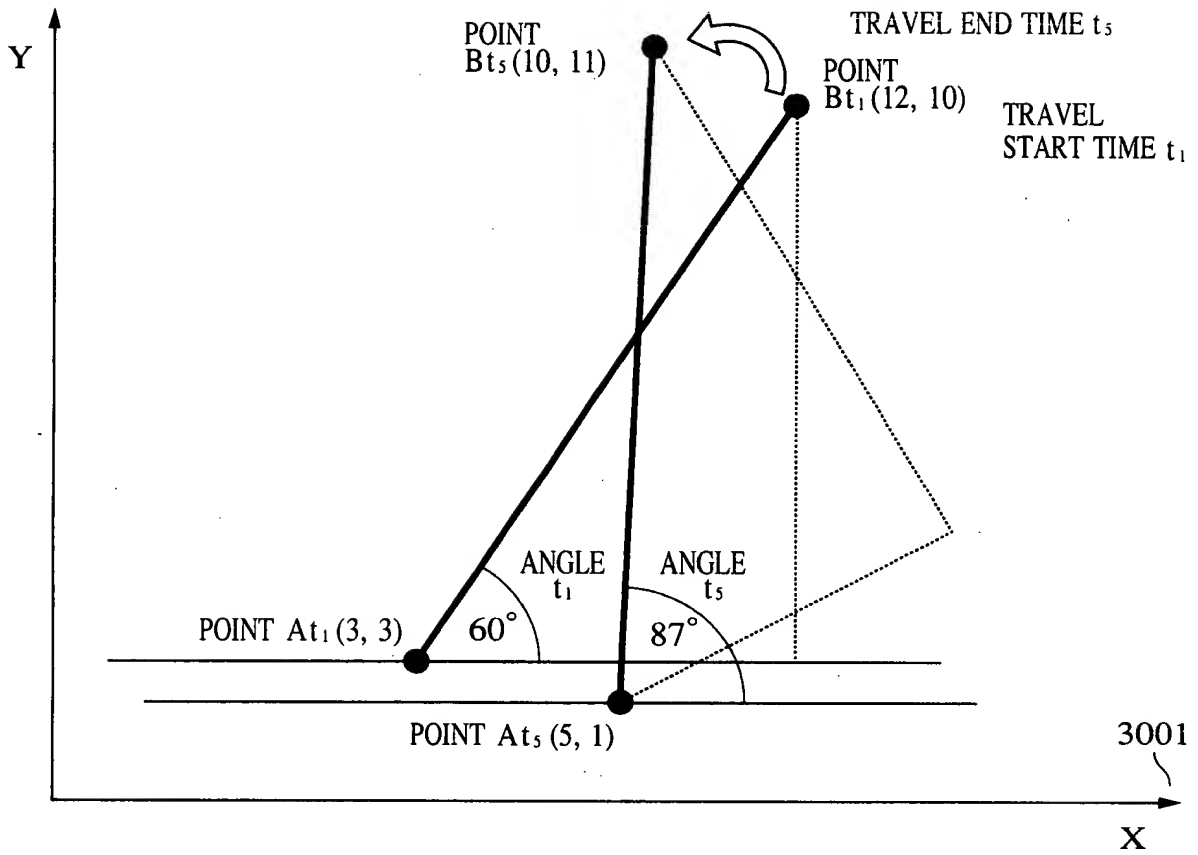


FIG. 30A

ANGLE OF DESIGNATED POSITIONS A AND B,
AND AMOUNT OF CHANGE

	ANGLE OF LINE AB	AMOUNT OF CHANGE ($t_n - t_1$)
t_1	60	0
t_2	65	5
t_3	70	10
t_4	80	20
t_5	87	27

3002

FIG. 30B

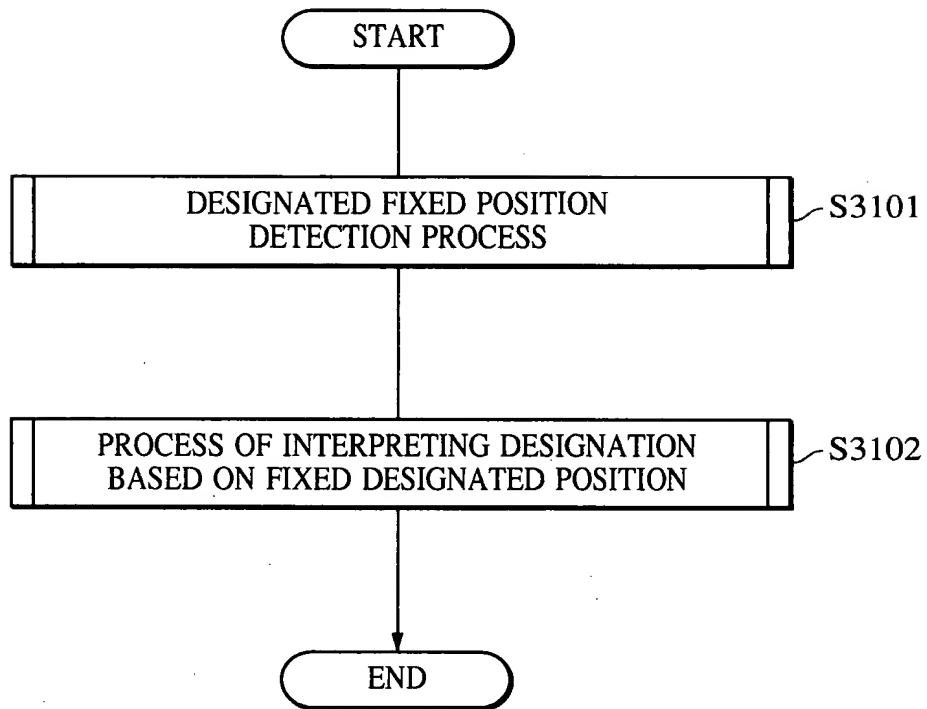


FIG. 31

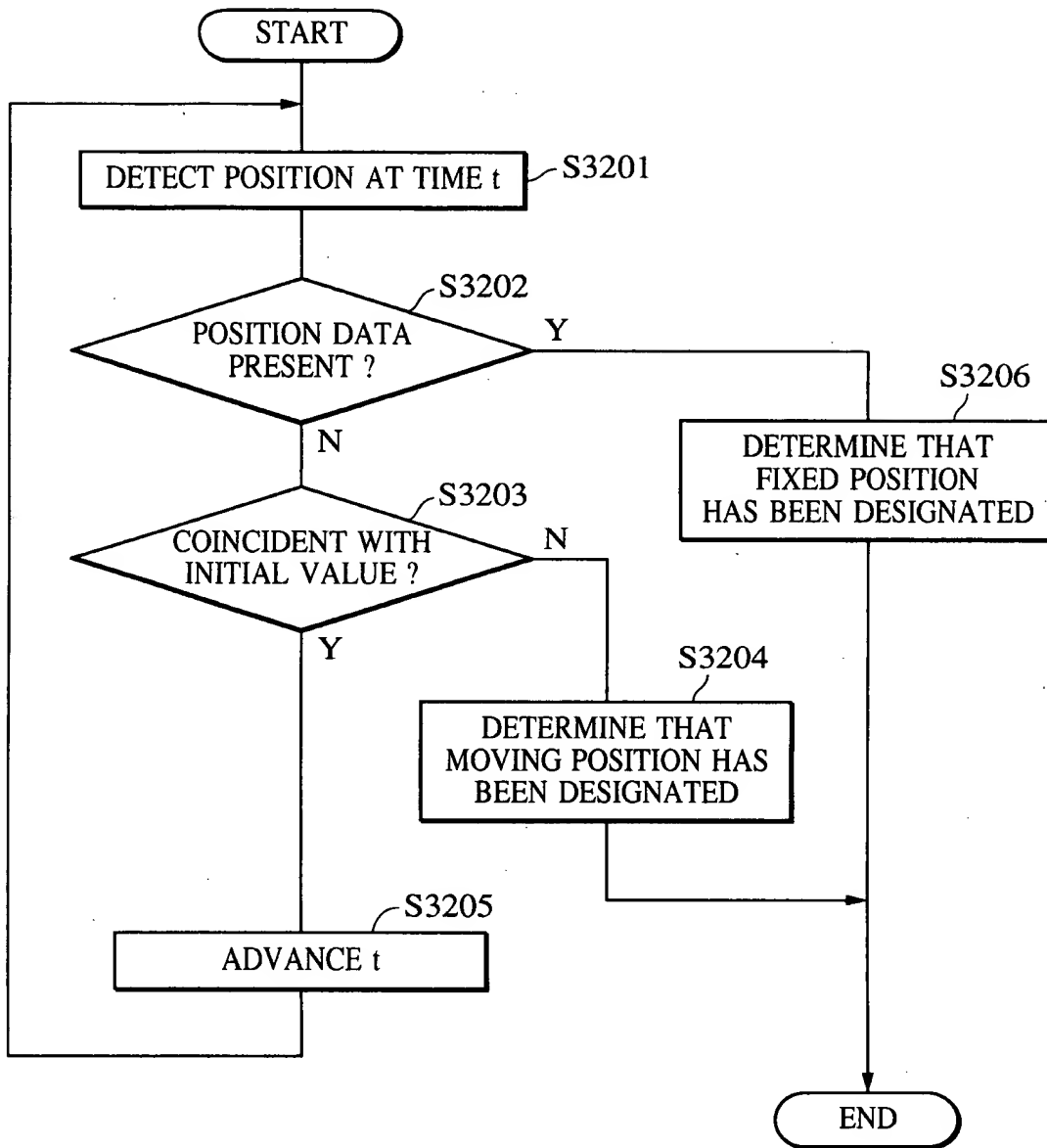


FIG. 32

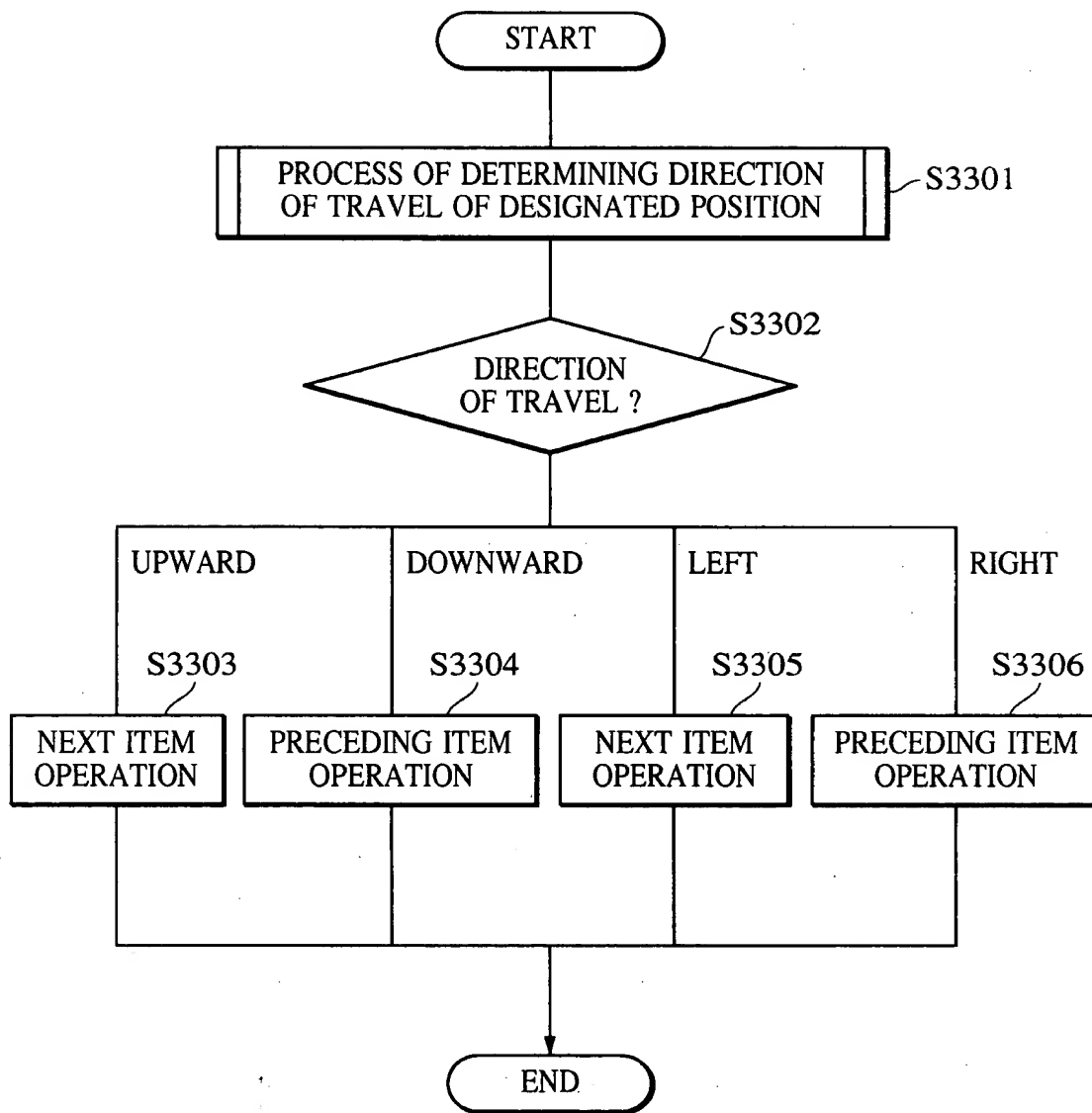


FIG. 33

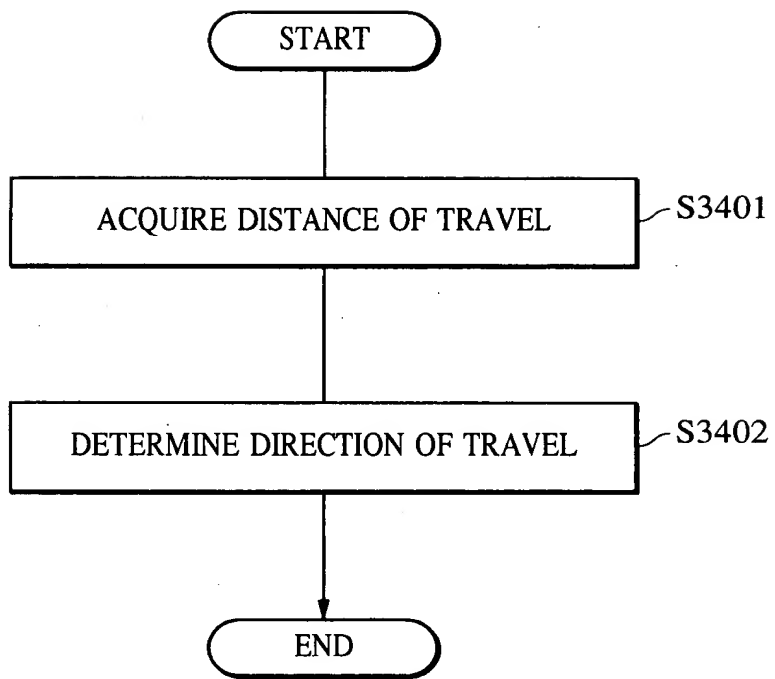


FIG. 34

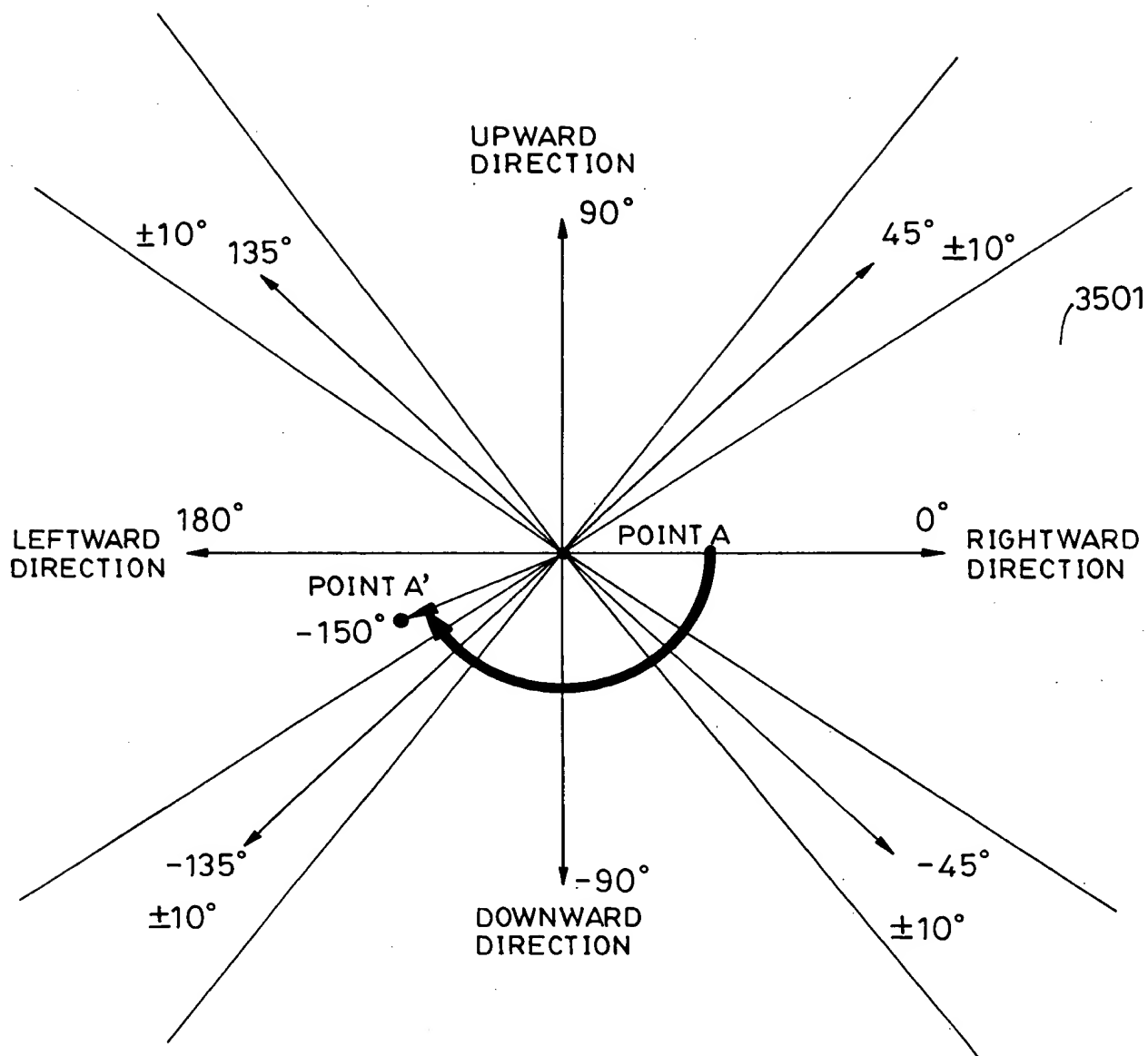


FIG. 35

LEFTWARD TRAVEL

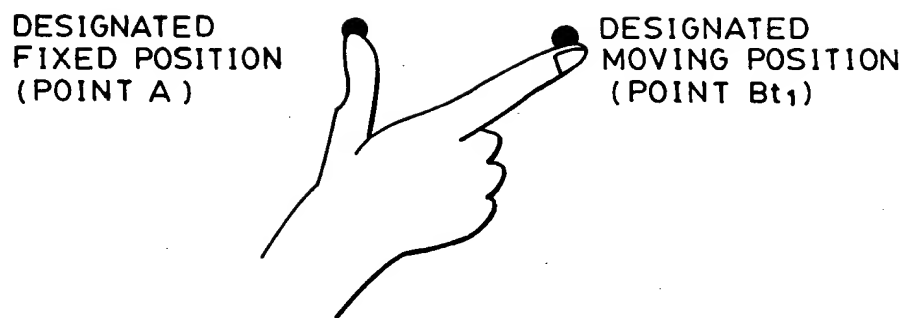


FIG. 36A

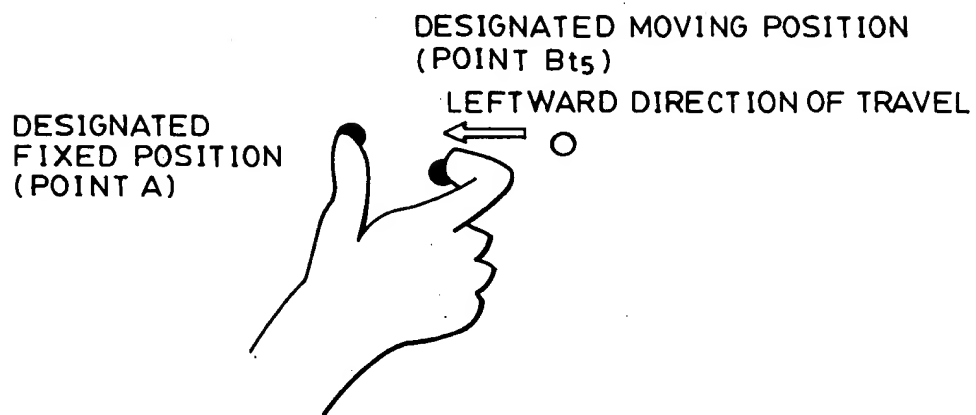


FIG. 36B

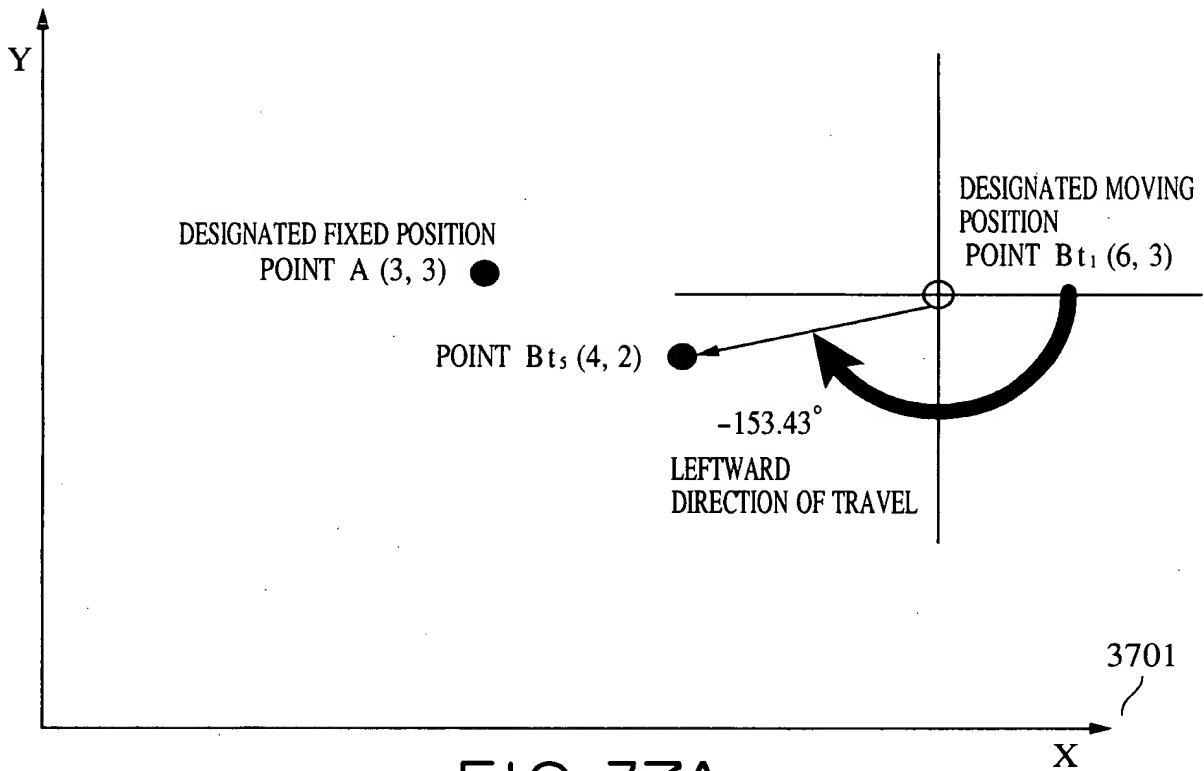


FIG. 37A

DESIGNATED FIXED POSITION
POSITION DATA OF POINT A

	A _x	A _y
t ₁	3	3
t ₂	3	3
t ₃	3	3
t ₄	3	3
t ₅	3	3

FIG. 37B

DESIGNATED MOVING POSITION
POSITION DATA OF POINT B

	B _x	B _y
t ₁	6.0	3.0
t ₂	5.3	2.3
t ₃	4.7	1.7
t ₄	4.3	1.2
t ₅	4.0	2.0

FIG. 37C

DESIGNATED POSITION TRAVEL DATA

	TRAVEL OF POINT A	TRAVEL OF POINT B	DIRECTION OF TRAVEL (DEGREES)
t ₁	0.000	0.000	-153.43
t ₂	0.000	0.000	-153.43
t ₃	0.000	1.862	-153.43
t ₄	0.000	2.453	-153.43
t ₅	0.000	2.236	153.43

FIG. 37D

UPWARD TRAVEL

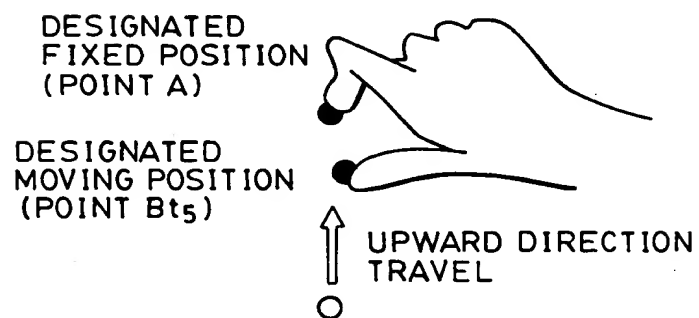
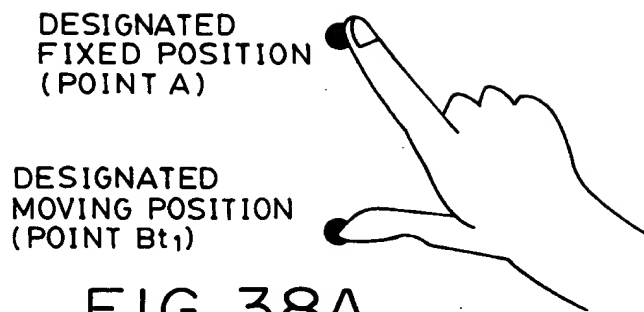


FIG. 38B

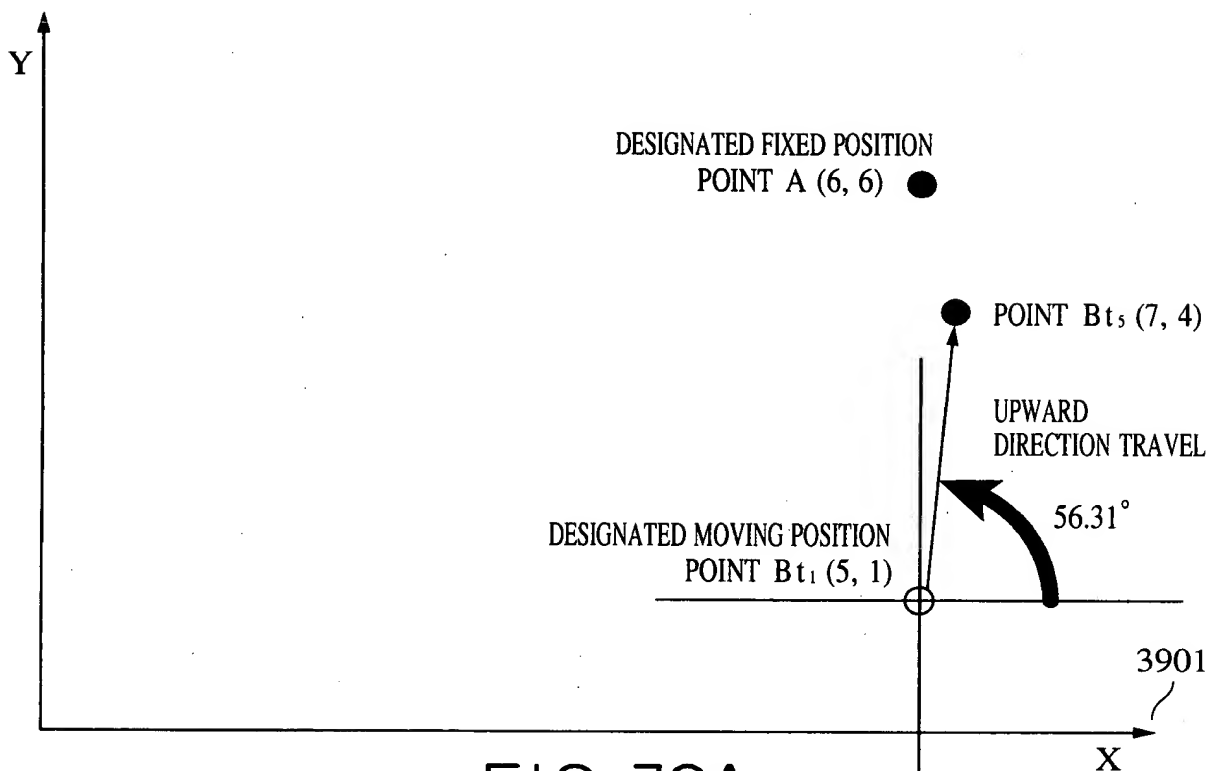


FIG. 39A

DESIGNATED FIXED POSITION
POSITION DATA OF POINT A

	A _x	A _y
t ₁	6	6
t ₂	6	6
t ₃	6	6
t ₄	6	6
t ₅	6	6

FIG. 39B

DESIGNATED MOVING POSITION
POSITION DATA OF POINT B

	B _x	B _y
t ₁	5.0	1.0
t ₂	5.6	1.8
t ₃	6.0	2.3
t ₄	6.6	3.5
t ₅	7.0	4.0

FIG. 39C

DESIGNATED POSITION TRAVEL DATA

	TRAVEL OF POINT A	TRAVEL OF POINT B	DIRECTION OF TRAVEL
t ₁	0.000	0.000	0.00
t ₂	0.000	1.000	53.13
t ₃	0.000	1.640	52.43
t ₄	0.000	2.968	57.38
t ₅	0.000	3.606	56.31

FIG. 39D

DOWNWARD TRAVEL

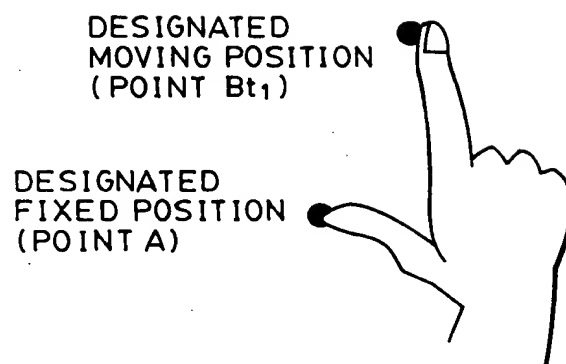


FIG. 40A

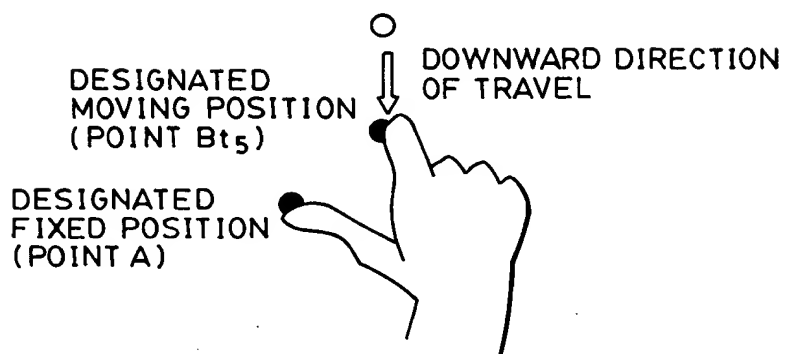


FIG. 40B

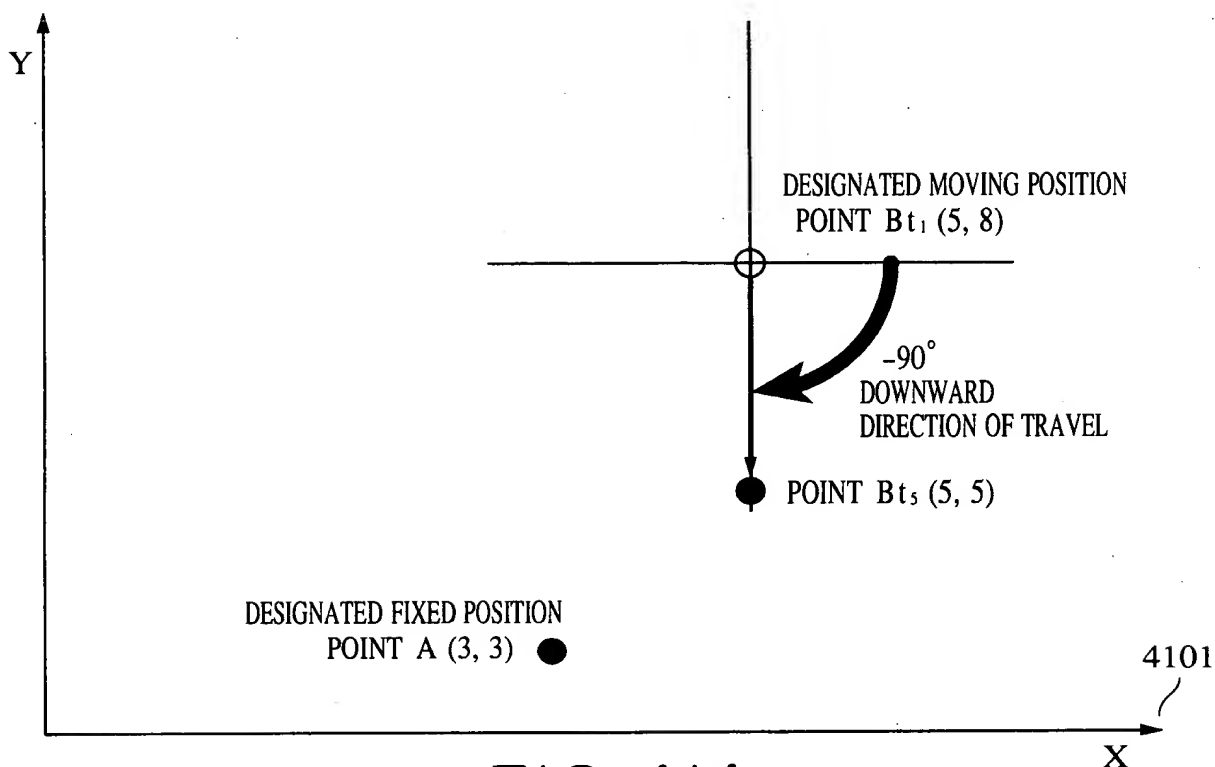


FIG. 41A

DESIGNATED FIXED POSITION
POSITION DATA OF POINT A

	A_x	A_y
t_1	3	3
t_2	3	3
t_3	3	3
t_4	3	3
t_5	3	3

FIG. 41B

DESIGNATED MOVING POSITION
POSITION DATA OF POINT B

	B_x	B_y
t_1	5.0	8.0
t_2	5.0	7.2
t_3	5.0	6.5
t_4	5.0	5.6
t_5	5.0	5.0

4102

FIG. 41C

DESIGNATED POSITION TRAVEL DATA

	TRAVEL OF POINT A	TRAVEL OF POINT B	DIRECTION OF TRAVEL
t_1	0.000	0.000	0.00
t_2	0.000	0.800	-90.00
t_3	0.000	1.500	-90.00
t_4	0.000	2.400	-90.00
t_5	0.000	3.000	-90.00

4103

FIG. 41D

RIGHTWARD TRAVEL

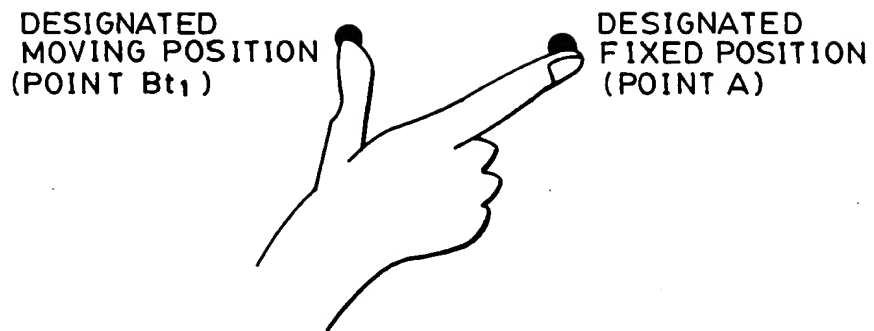


FIG. 42A

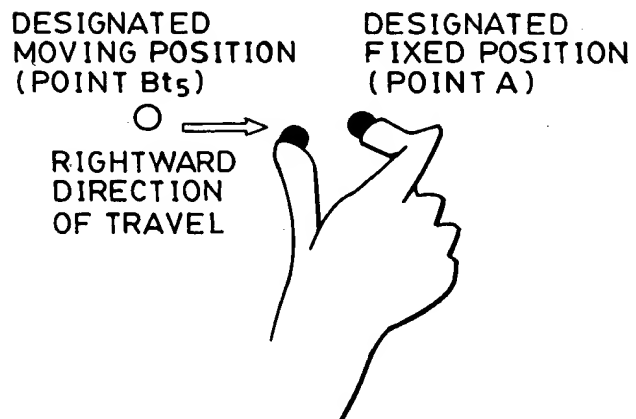


FIG. 42B

FIG. 42A

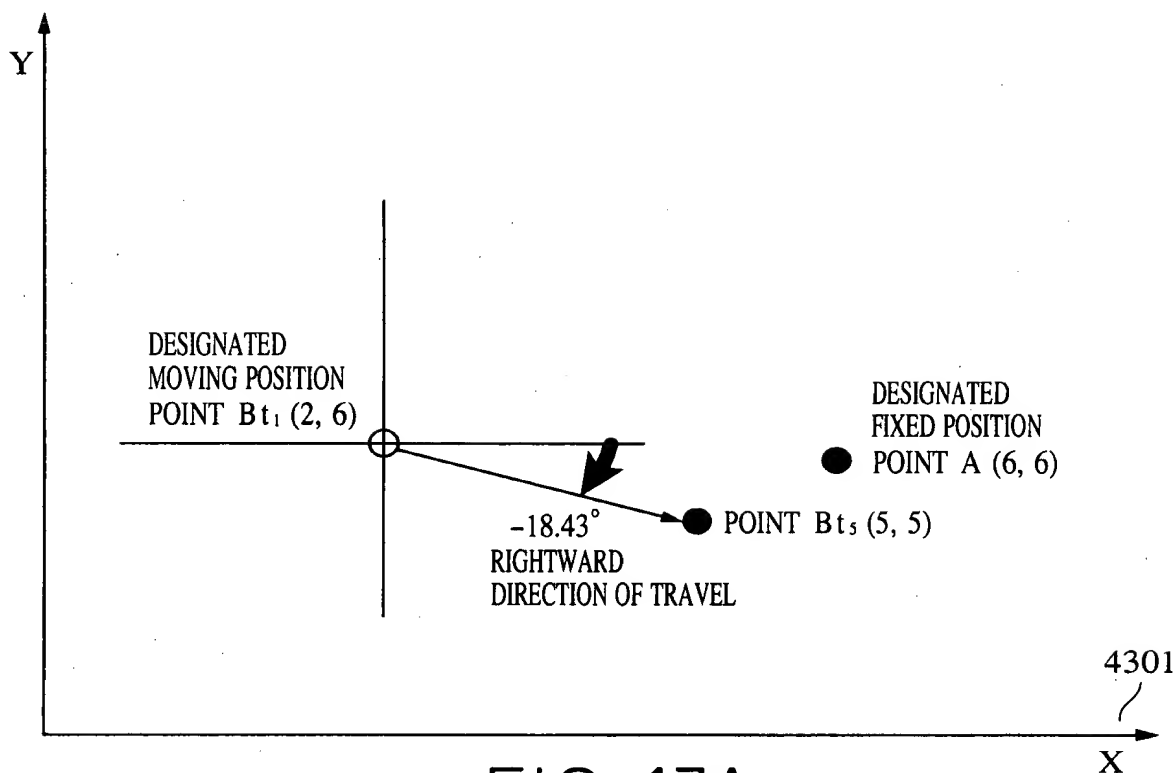


FIG. 43A

DESIGNATED FIXED POSITION
POSITION DATA OF POINT A

	A _x	A _y
t ₁	6	6
t ₂	6	6
t ₃	6	6
t ₄	6	6
t ₅	6	6

FIG. 43B

DESIGNATED MOVING POSITION
POSITION DATA OF POINT B

	B _x	B _y
t ₁	2.0	6.0
t ₂	2.8	5.7
t ₃	3.5	5.6
t ₄	4.2	5.2
t ₅	5.0	5.0

FIG. 43C

DESIGNATED POSITION TRAVEL DATA

	TRAVEL OF POINT A	TRAVEL OF POINT B	DIRECTION OF TRAVEL
t ₁	0.000	0.000	0.00
t ₂	0.000	4.892	-40.86
t ₃	0.000	4.383	-34.78
t ₄	0.000	3.672	-29.36
t ₅	0.000	3.162	-18.43

FIG. 43D

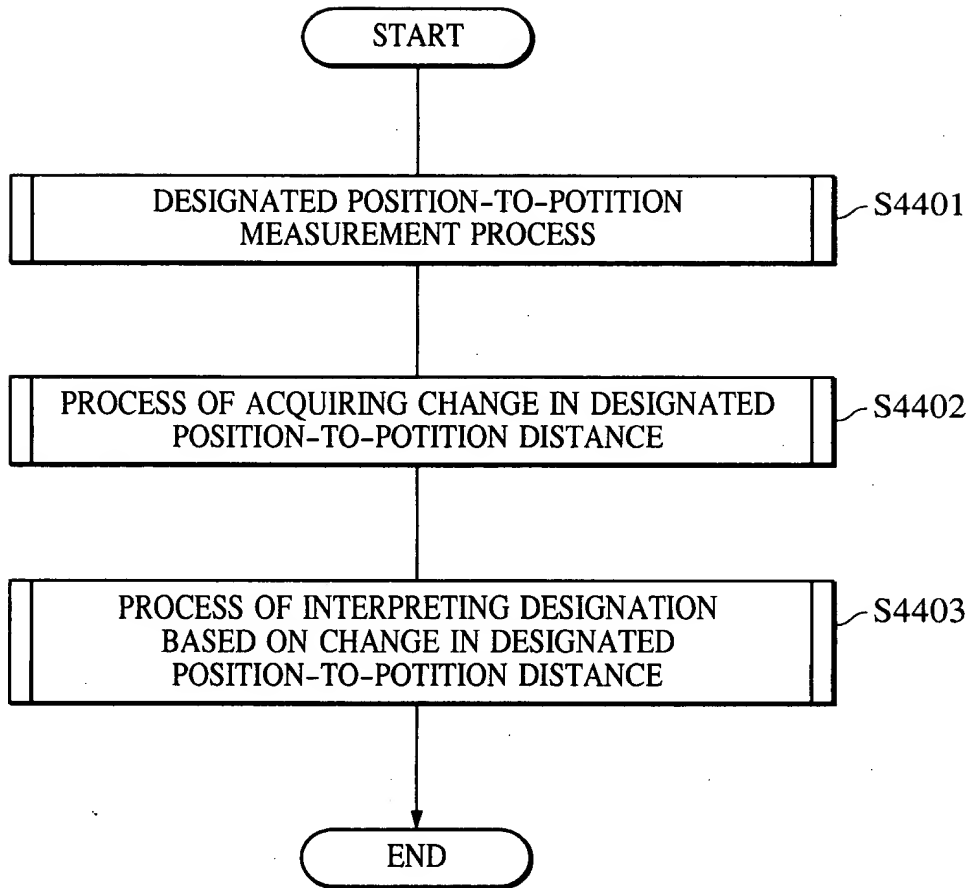
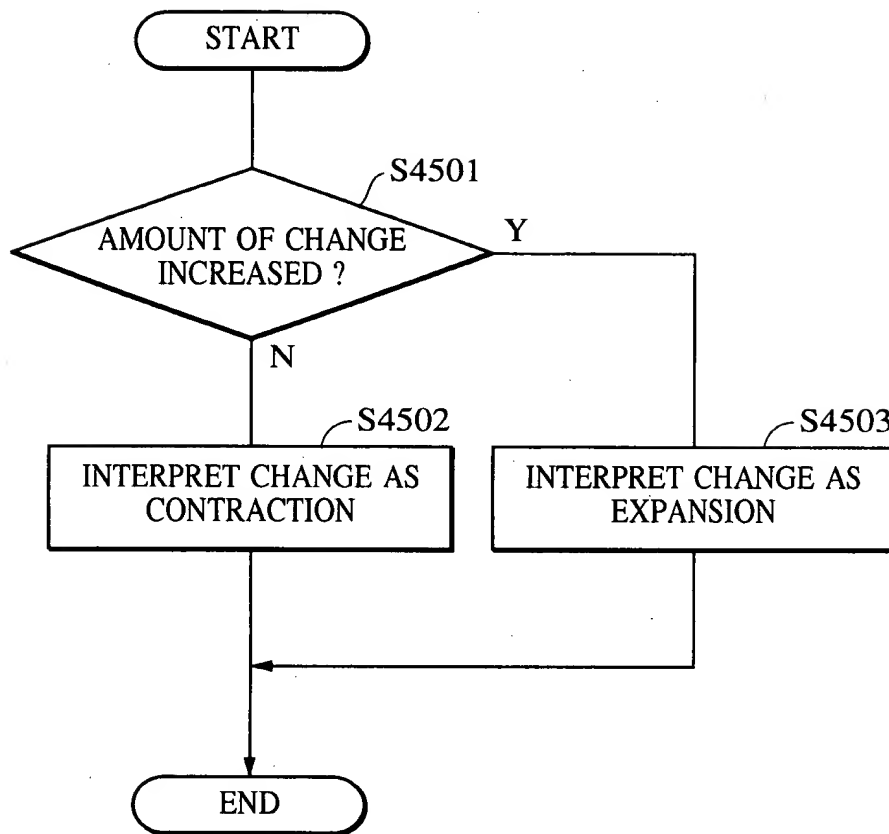


FIG. 44



CONTRACTION OPERATION

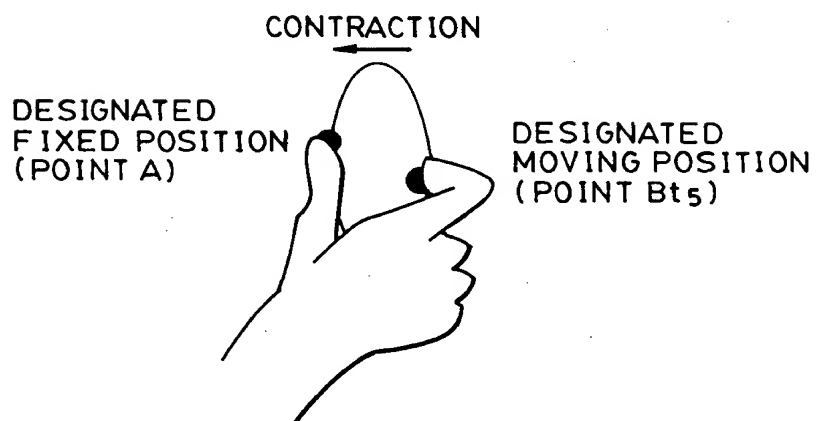
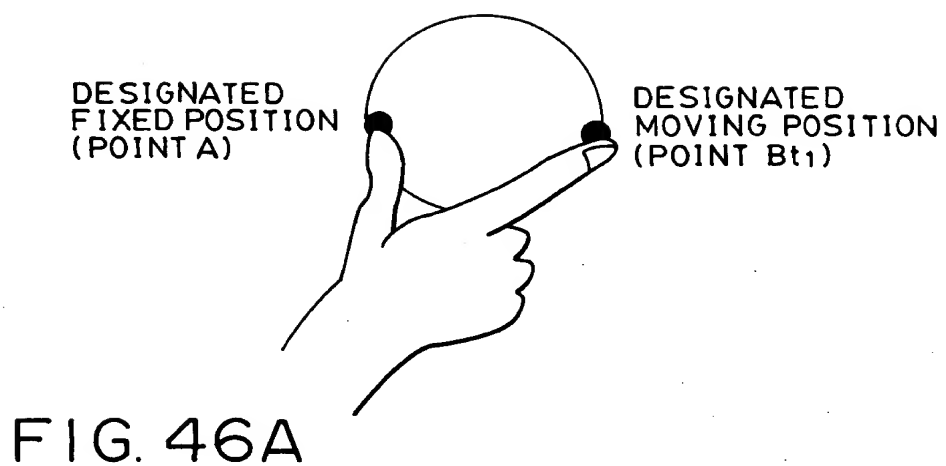


FIG. 46B

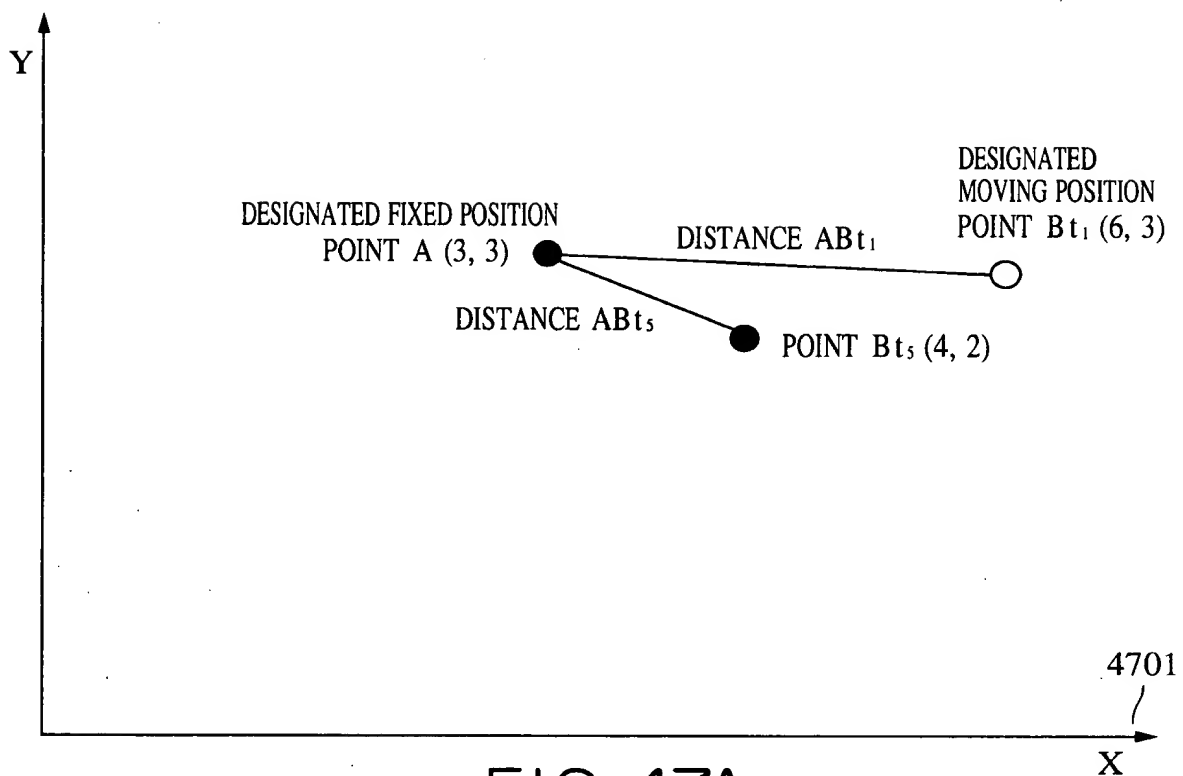


FIG. 47A

DESIGNATED FIXED POSITION
POSITION DATA OF POINT A

	A _X	A _Y
t ₁	3	3
t ₂	3	3
t ₃	3	3
t ₄	3	3
t ₅	3	3

FIG. 47B

DESIGNATED MOVING POSITION
POSITION DATA OF POINT B

	B _X	B _Y
t ₁	6.0	3.0
t ₂	5.3	2.3
t ₃	4.7	1.7
t ₄	4.3	1.2
t ₅	4.0	2.0

FIG. 47C

DATA OF CHANGE IN DESIGNATED POSITION-TO-POSITION DISTANCE

	DISTANCE BETWEEN A AND B	MAGNIFICATION (DISTANCE t _n / DISTANCE t ₁)	DISTANCE t _n / DISTANCE t ₁
t ₁	3.000	100%	0.000
t ₂	2.436	81%	-0.564
t ₃	2.114	70%	-0.886
t ₄	2.240	75%	-0.760
t ₅	1.414	47%	-1.586

FIG. 47D

EXPANSION OPERATION

DESIGNATED
FIXED POSITION
(POINT A)

DESIGNATED
MOVING POSITION
(POINT Bt₁)

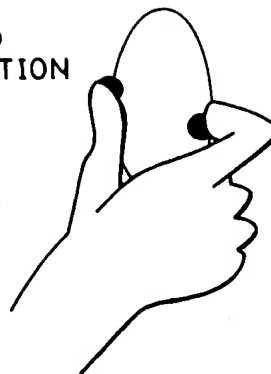


FIG. 48A



EXPANDED
→

DESIGNATED
FIXED POSITION
(POINT A)

DESIGNATED
MOVING POSITION
(POINT Bt₅)

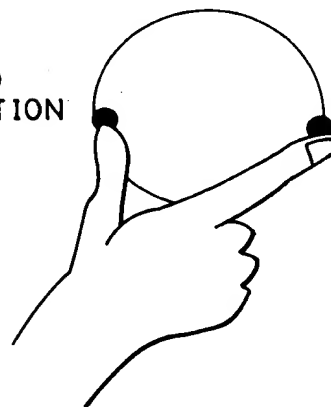


FIG. 48B

FIG. 48A

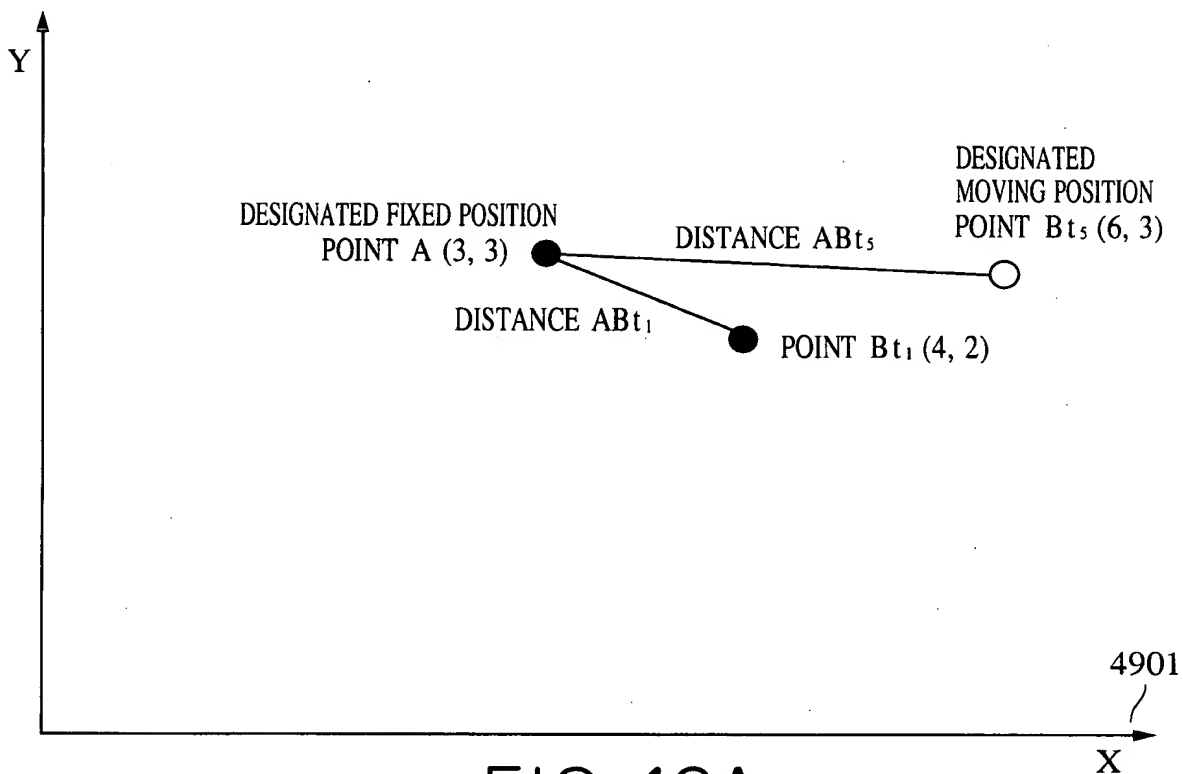


FIG. 49A

DESIGNATED FIXED POSITION
POSITION DATA OF POINT A

	A _x	A _y
t ₁	3	3
t ₂	3	3
t ₃	3	3
t ₄	3	3
t ₅	3	3

FIG. 49B

DESIGNATED MOVING POSITION
POSITION DATA OF POINT B

	B _x	B _y
t ₁	4.0	2.0
t ₂	4.5	2.2
t ₃	5.2	2.5
t ₄	5.8	2.8
t ₅	6.0	3.0

FIG. 49C

DATA OF CHANGE IN DESIGNATED POSITION-TO-POSITION DISTANCE

	DISTANCE BETWEEN A AND B	MAGNIFICATION (DISTANCE t _n / DISTANCE t ₁)
t ₁	1.414	100%
t ₂	1.700	120%
t ₃	2.256	160%
t ₄	2.807	198%
t ₅	3.000	212%

FIG. 49D

CONTRACTION OPERATION

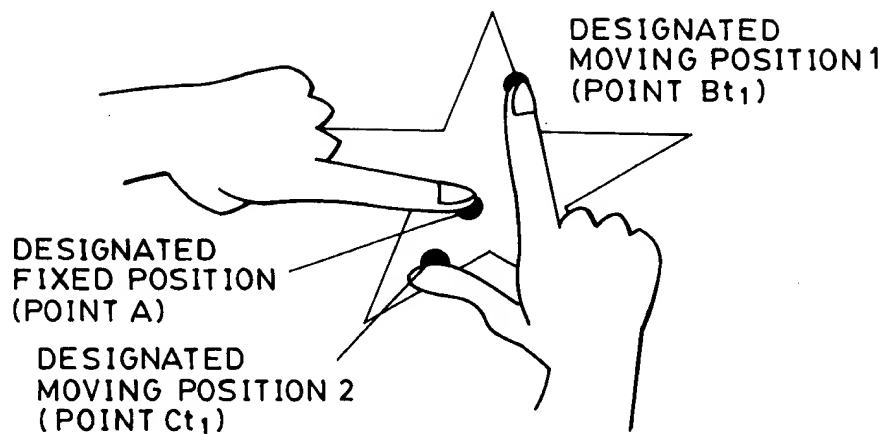


FIG. 50A

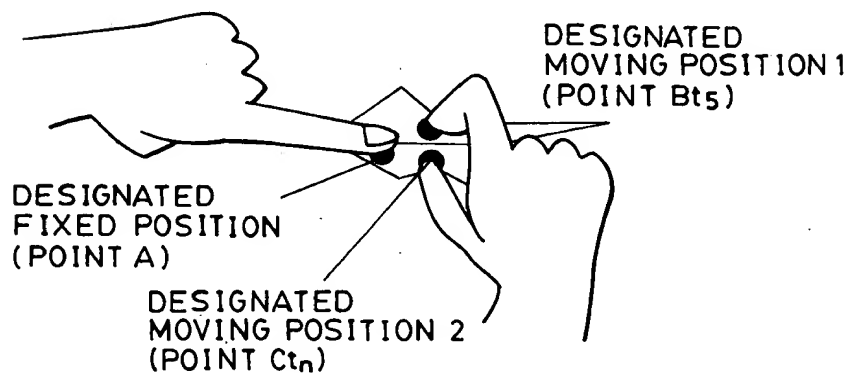


FIG. 50B

FIG. 51A

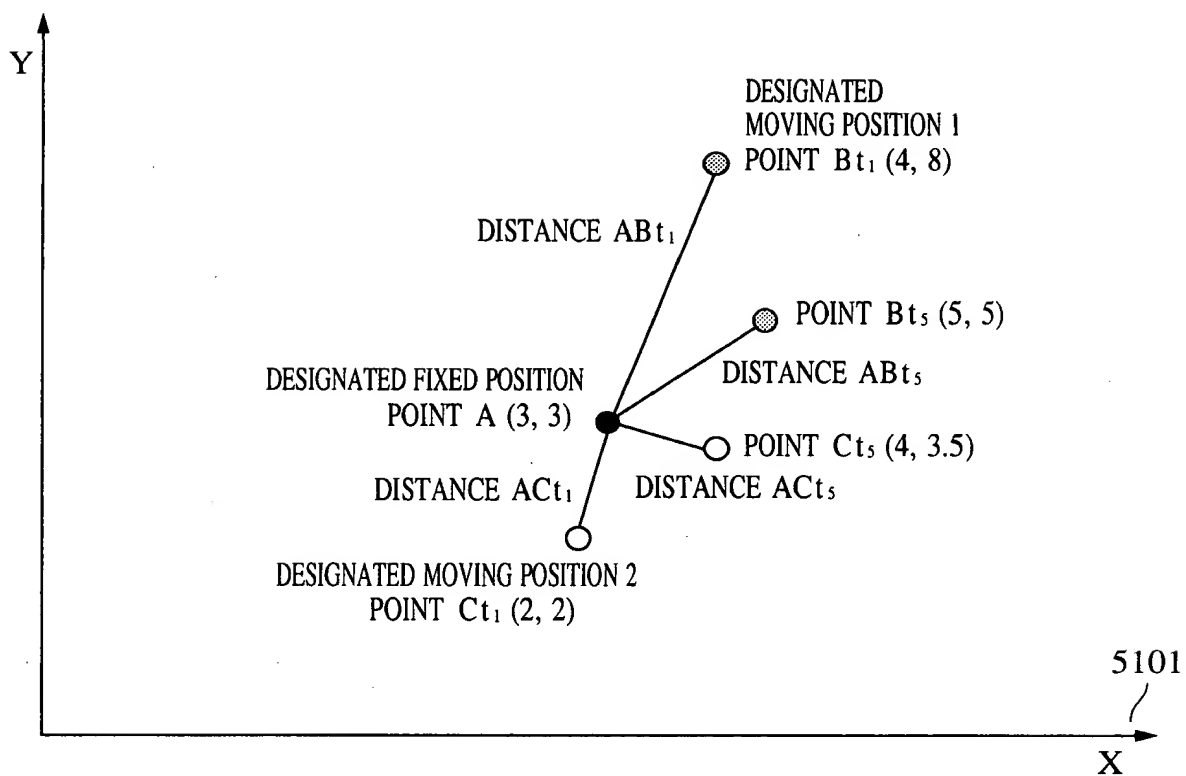


FIG. 51A

DESIGNATED FIXED POSITION
POSITION DATA OF POINT A

	A _x	A _y
t ₁	3	3
t ₂	3	3
t ₃	3	3
t ₄	3	3
t ₅	3	3

DESIGNATED MOVING POSITION 1
POSITION DATA OF POINT B

	B _x	B _y
t ₁	4.0	8.0
t ₂	4.2	7.2
t ₃	4.4	6.3
t ₄	4.7	5.8
t ₅	5.0	5.0

DESIGNATED MOVING POSITION 2
POSITION DATA OF POINT C

	C _x	C _y
t ₁	2.0	2.0
t ₂	2.8	2.3
t ₃	3.4	2.8
t ₄	3.8	3.3
t ₅	4.0	3.5

5102

FIG. 51B

FIG. 51C

FIG. 51D

DATA 1 OF CHANGE IN DESIGNATED
POSITION-TO-POSITION DISTANCE

	DISTANCE BETWEEN A AND B	MAGNIFICATION (DISTANCE t _n / DISTANCE t ₁)
t ₁	5.099	100%
t ₂	4.368	86%
t ₃	3.585	70%
t ₄	3.276	64%
t ₅	2.828	55%

DATA 2 OF CHANGE IN DESIGNATED
POSITION-TO-POSITION DISTANCE

	DISTANCE BETWEEN A AND B	MAGNIFICATION (DISTANCE t _n / DISTANCE t ₁)
t ₁	1.414	100%
t ₂	0.728	51%
t ₃	0.447	32%
t ₄	0.854	60%
t ₅	1.118	79%

5103

FIG. 51E

FIG. 51F

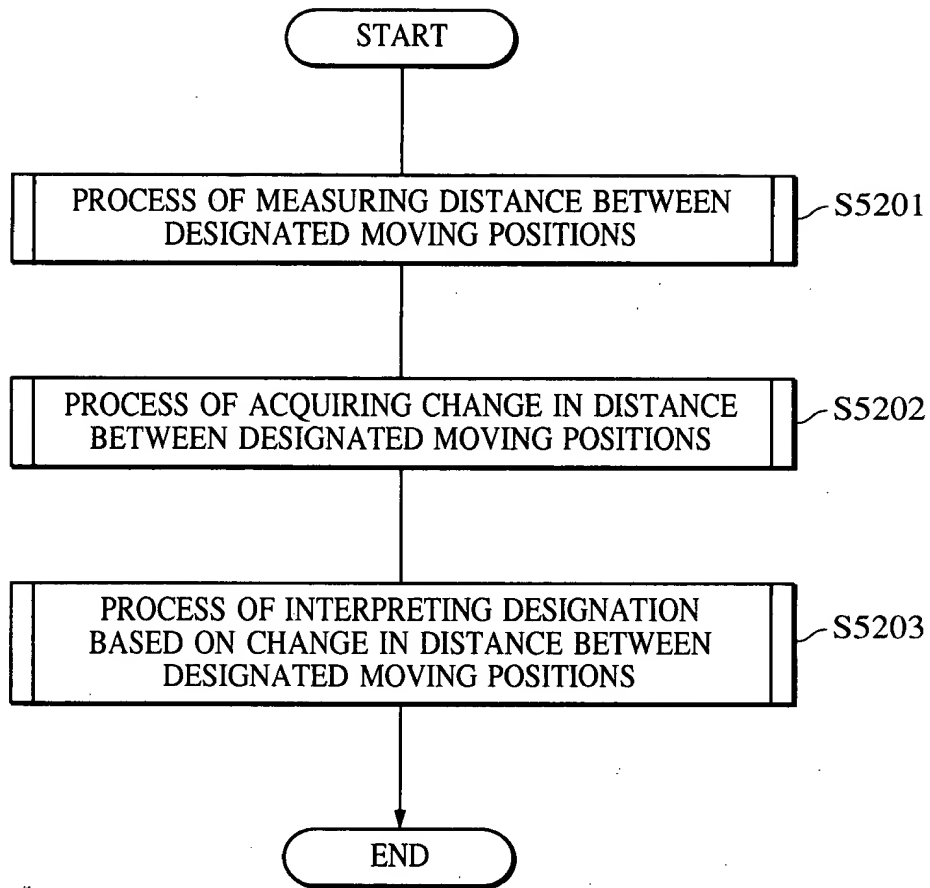


FIG. 52

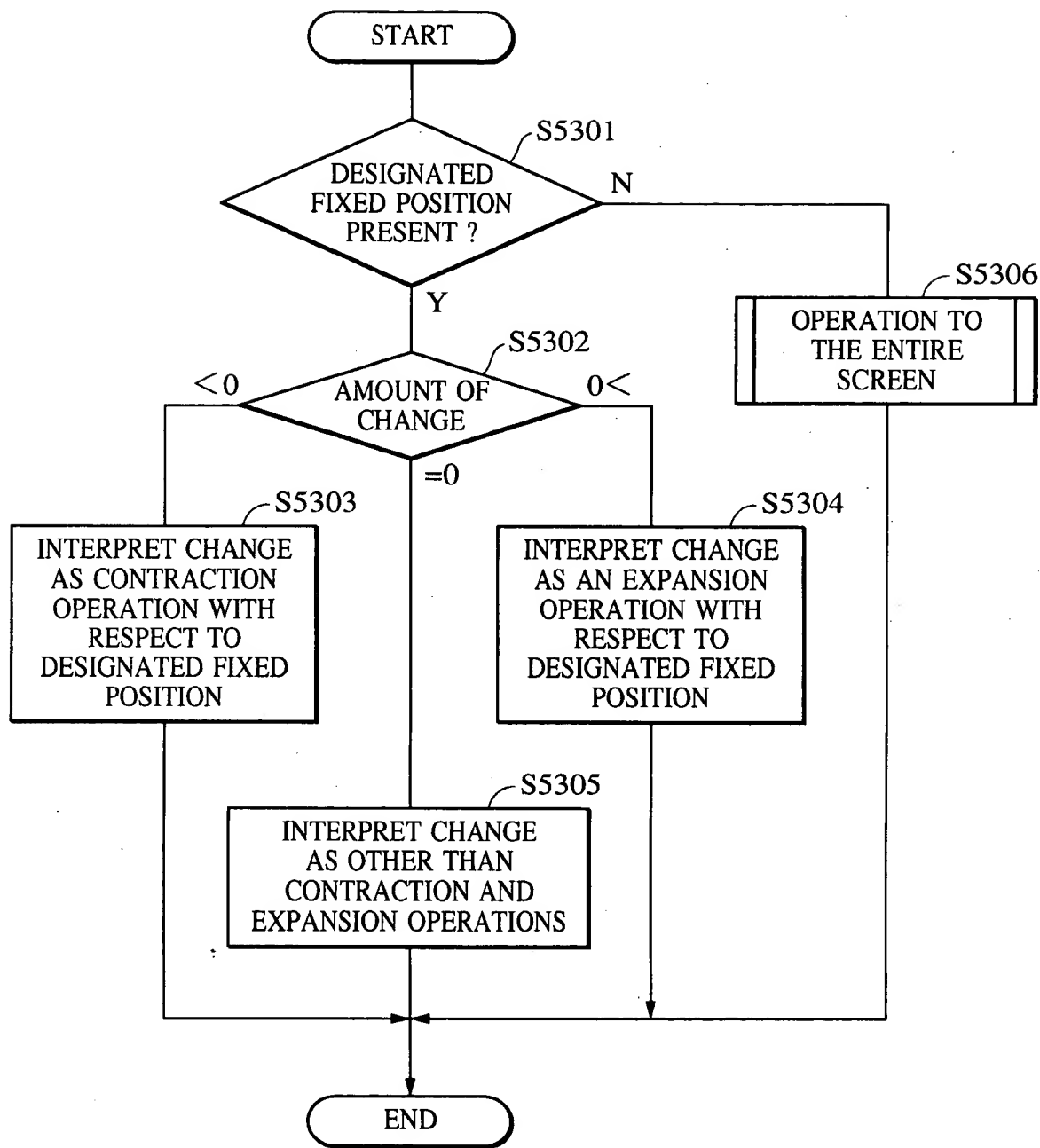


FIG. 53

CONTRACTION OPERATION

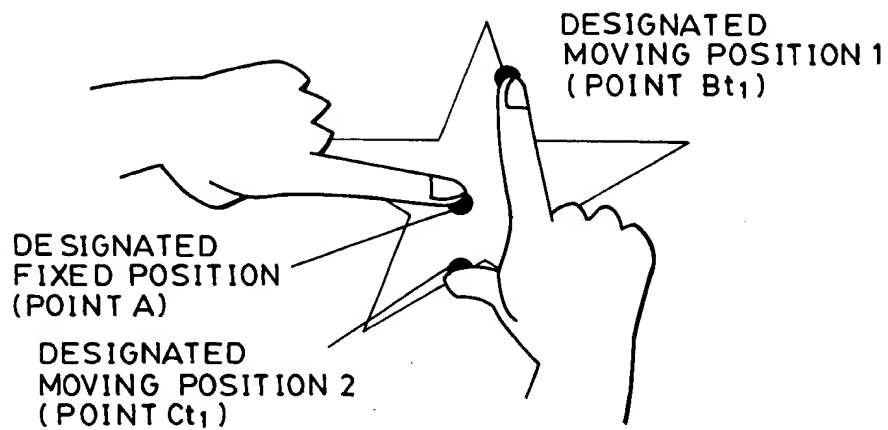


FIG. 54A

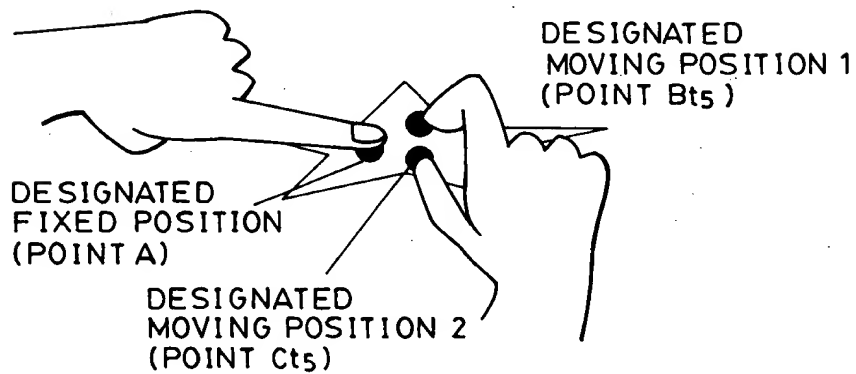


FIG. 54B

FIG. 54A

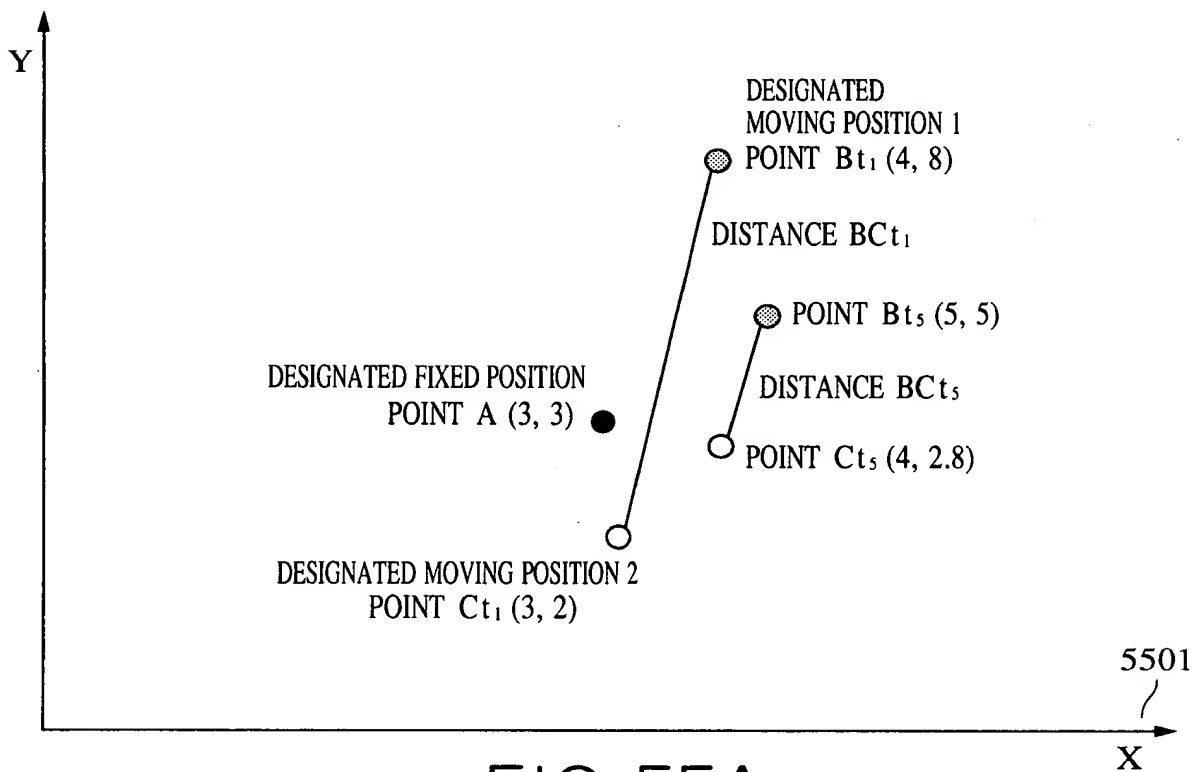


FIG. 55A

DESIGNATED FIXED POSITION
POSITION DATA OF POINT A

	A_x	A_y
t_1	3	3
t_2	3	3
t_3	3	3
t_4	3	3
t_5	3	3

DESIGNATED MOVING POSITION
POSITION DATA OF POINT B

	B_x	B_y
t_1	4.0	8.0
t_2	4.2	7.2
t_3	4.4	6.3
t_4	4.7	5.8
t_5	5.0	5.0

DESIGNATED MOVING POSITION
POSITION DATA OF POINT C

	C_x	C_y
t_1	3.0	2.0
t_2	3.2	2.2
t_3	3.4	2.4
t_4	3.8	2.6
t_5	4.0	2.8

5502

FIG. 55B

FIG. 55C

FIG. 55D

DATA OF CHANGE IN DESIGNATED
POSITION-TO-POSITION DISTANCE

5503

	DISTANCE BETWEEN B AND C	MAGNIFICATION.. (DISTANCE t_n / DISTANCE t_1)
t_1	6.083	100%
t_2	5.099	84%
t_3	4.026	66%
t_4	3.324	55%
t_5	2.417	40%

FIG. 55E

CONTRACTION OPERATION

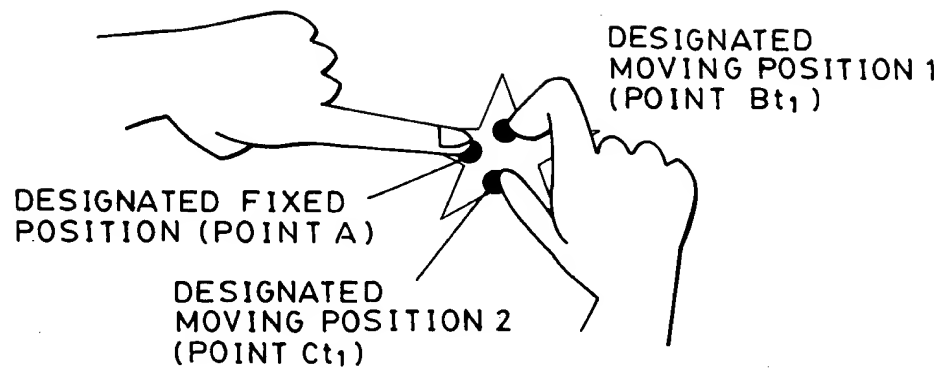


FIG. 56A

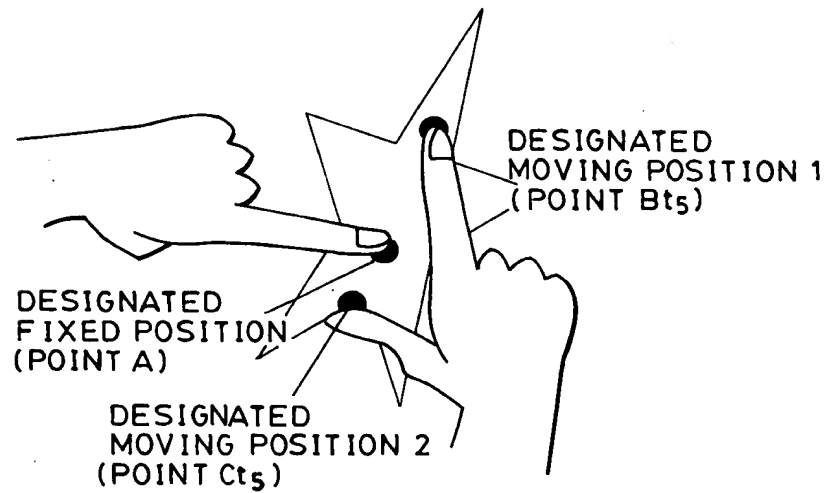


FIG. 56B

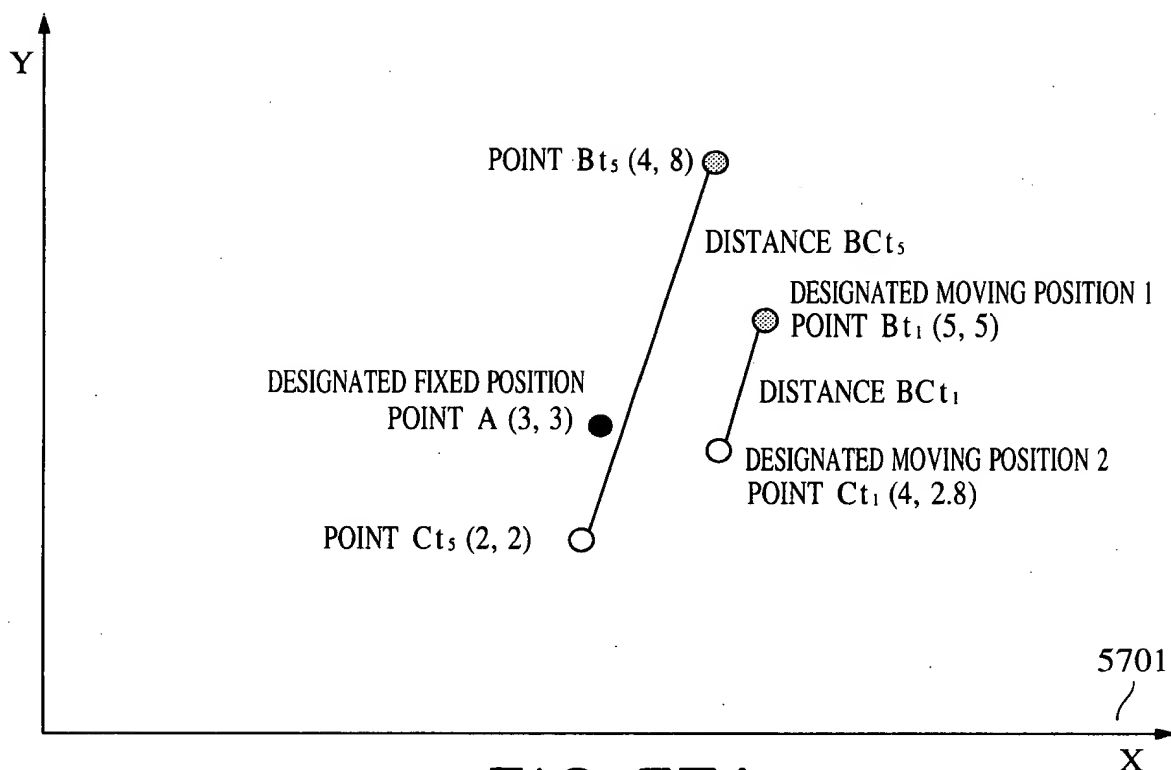


FIG. 57A

DESIGNATED FIXED POSITION
POSITION DATA OF POINT A

	A_x	A_y
t_1	3	3
t_2	3	3
t_3	3	3
t_4	3	3
t_5	3	3

FIG. 57B

DESIGNATED MOVING POSITION 1
POSITION DATA OF POINT B

	B_x	B_y
t_1	5.0	5.0
t_2	4.7	5.8
t_3	4.4	6.3
t_4	4.2	7.2
t_5	4.0	8.0

FIG. 57C

DESIGNATED MOVING POSITION 2
POSITION DATA OF POINT C

	C_x	C_y
t_1	4.0	2.8
t_2	3.8	2.6
t_3	3.4	2.4
t_4	2.8	2.2
t_5	2.0	2.0

FIG. 57D

DATA OF CHANGE IN DESIGNATED
POSITION-TO-POSITION DISTANCE

	DISTANCE BETWEEN B AND C	MAGNIFICATION (DISTANCE t_n / DISTANCE t_1)
t_1	2.417	100%
t_2	3.324	138%
t_3	4.026	167%
t_4	5.192	215%
t_5	6.325	262%

FIG. 57E

DESIGNATING A PLURALITY OF MOVING POINTS

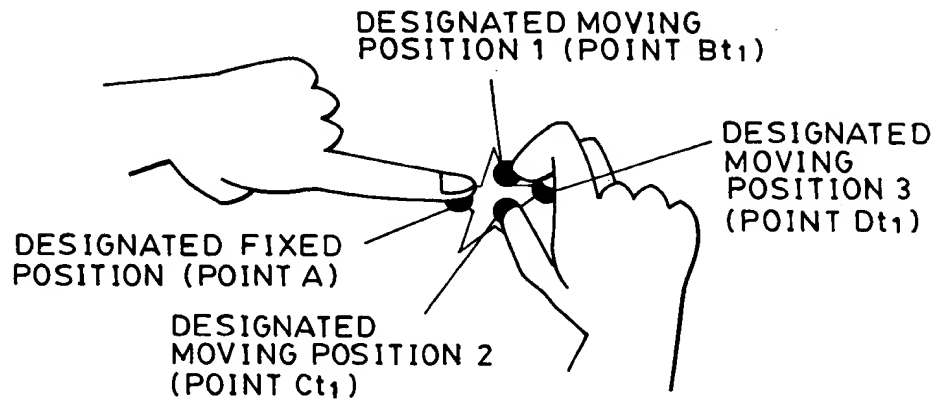


FIG. 58A

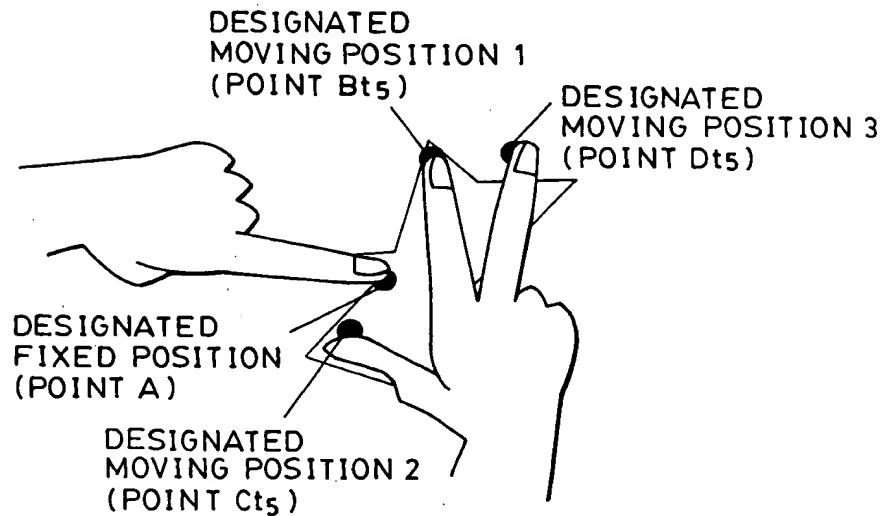


FIG. 58B

1. 0 3 4 1 . 0 4 3 0 1

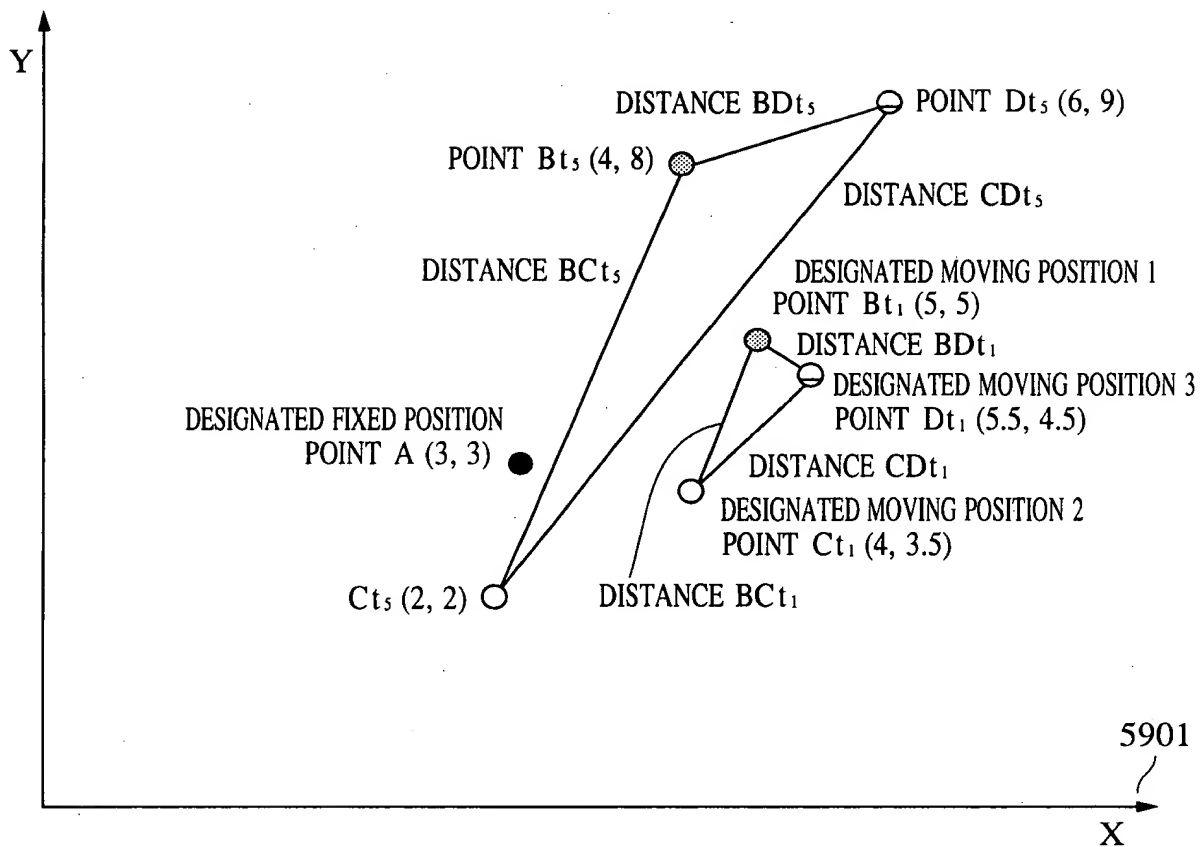


FIG. 59A

DESIGNATED FIXED POSITION
POSITION DATA OF POINT A

	A _x	A _y
t ₁	3	3
t ₂	3	3
t ₃	3	3
t ₄	3	3
t ₅	3	3

DESIGNATED MOVING POSITION
POSITION DATA OF POINT B

	B _x	B _y
t ₁	5.0	5.0
t ₂	4.7	5.8
t ₃	4.4	6.3
t ₄	4.2	7.2
t ₅	4.0	8.0

DESIGNATED MOVING POSITION
POSITION DATA OF POINT C

	C _x	C _y
t ₁	4.0	3.5
t ₂	3.8	3.3
t ₃	3.4	2.8
t ₄	2.8	2.3
t ₅	2.0	2.0

DESIGNATED MOVING POSITION
POSITION DATA OF POINT D

	D _x	D _y
t ₁	5.5	4.5
t ₂	5.6	6.0
t ₃	5.8	7.0
t ₄	5.9	8.0
t ₅	6.0	9.0

5902

FIG. 59B

FIG. 59C

FIG. 59D

FIG. 59E

DATA 1 OF CHANGE IN DESIGNATED
POSITION-TO-POSITION DISTANCE

	DISTANCE BETWEEN B AND C	MAGNIFICATION (DISTANCE t _a / DISTANCE t ₁)
t ₁	1.803	100%
t ₂	2.657	147%
t ₃	3.640	202%
t ₄	5.096	283%
t ₅	6.325	351%

DATA 2 OF CHANGE IN DESIGNATED
POSITION-TO-POSITION DISTANCE

	DISTANCE BETWEEN B AND D	MAGNIFICATION (DISTANCE t _a / DISTANCE t ₁)
t ₁	0.707	100%
t ₂	0.922	130%
t ₃	1.565	221%
t ₄	1.879	266%
t ₅	2.236	316%

DATA 3 OF CHANGE IN DESIGNATED
POSITION-TO-POSITION DISTANCE

	DISTANCE BETWEEN C AND D	MAGNIFICATION (DISTANCE t _a / DISTANCE t ₁)
t ₁	1.803	100%
t ₂	3.245	180%
t ₃	4.837	268%
t ₄	6.488	360%
t ₅	8.062	447%

5903

FIG. 59F

FIG. 59G

FIG. 59H

FIG. 60

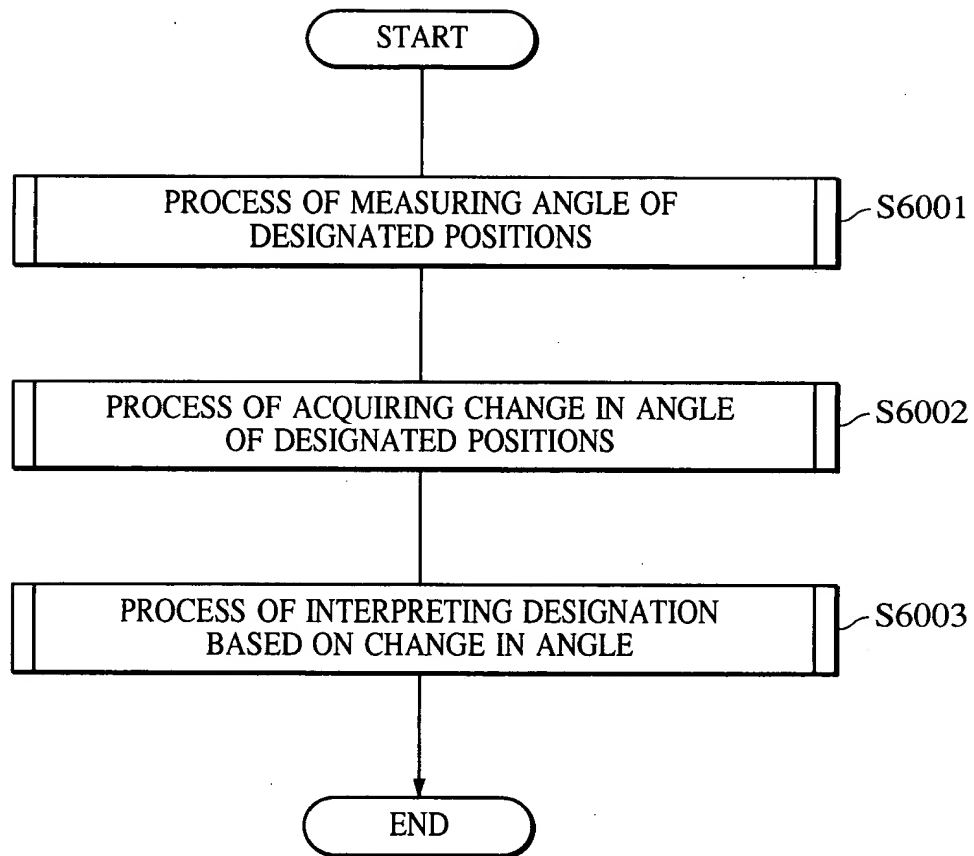


FIG. 60

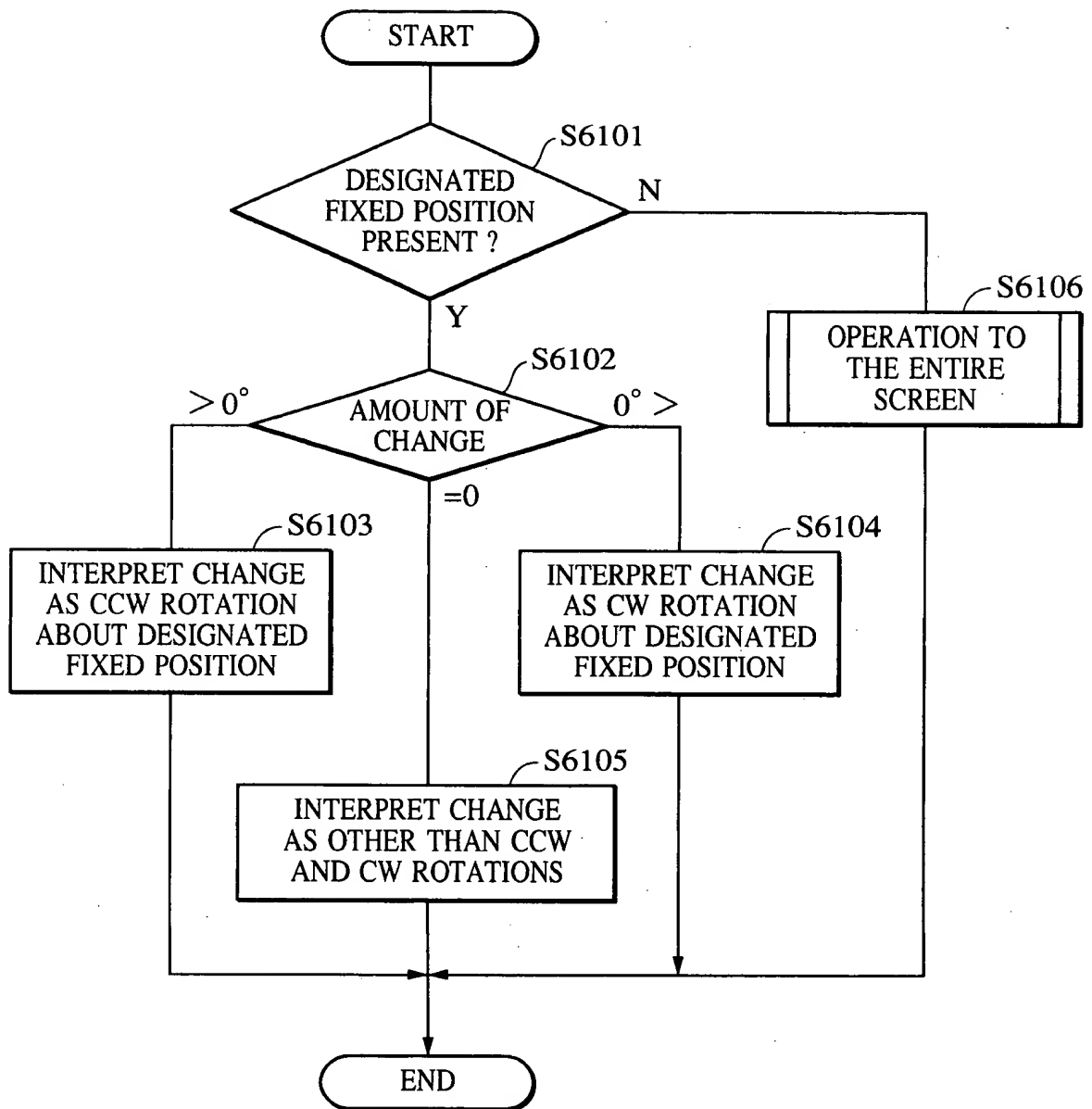


FIG. 61



FIG. 62A



FIG. 62B

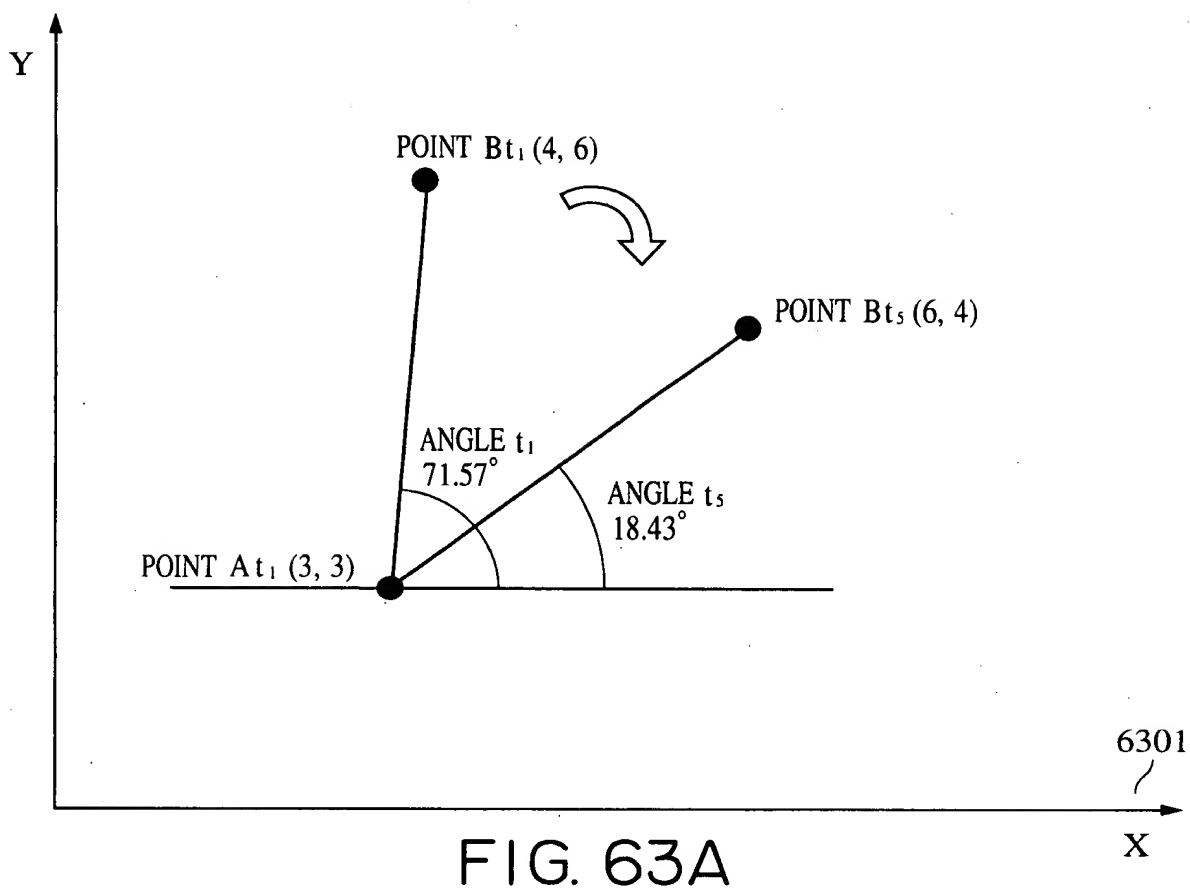


FIG. 63A

DESIGNATED FIXED POSITION
POSITION DATA OF POINT A

	A _x	A _y
t ₁	3	3
t ₂	3	3
t ₃	3	3
t ₄	3	3
t ₅	3	3

6302A

DESIGNATED MOVING POSITION
POSITION DATA OF POINT B

	B _x	B _y
t ₁	4.0	6.0
t ₂	4.7	5.7
t ₃	5.2	5.3
t ₄	5.7	4.6
t ₅	6.0	4.0

6302B

FIG. 63B

FIG. 63C

DATA OF CHANGE IN ANGLE OF DESIGNATED POSITIONS

	ANGLE OF DESIGNATED POSITIONS	AMOUNT OF CHANGE
t ₁	71.57	0.00
t ₂	57.57	-14.00
t ₃	45.91	-25.66
t ₄	30.67	-40.90
t ₅	18.43	-53.13

6303

FIG. 63D

CCW ROTATION OPERATION

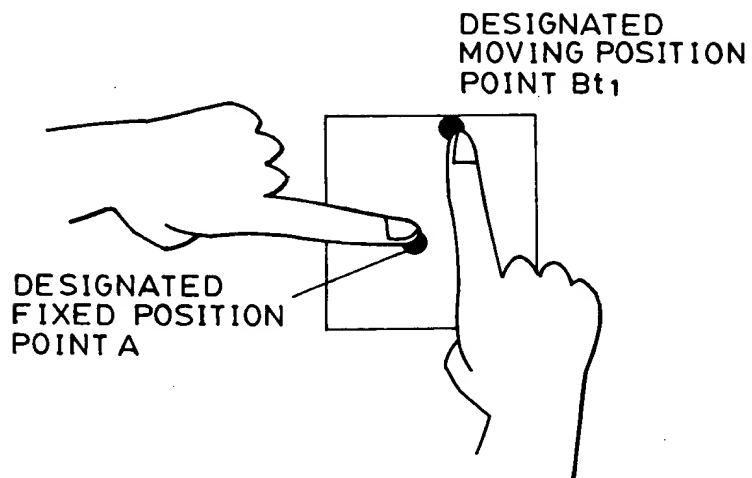


FIG. 64A

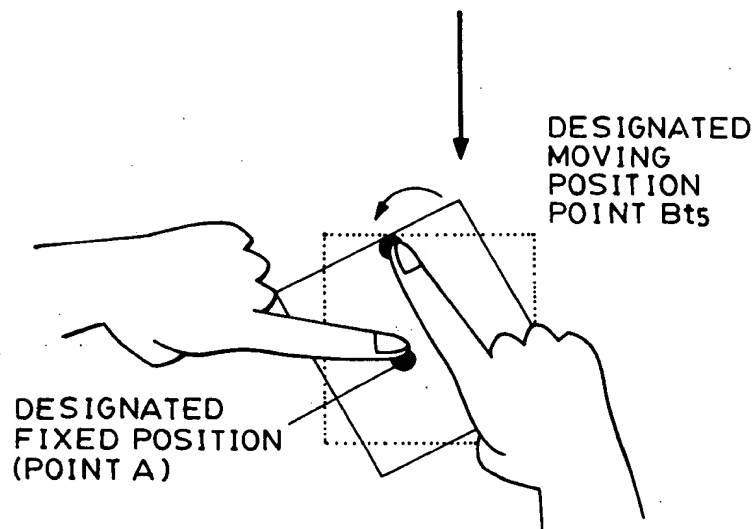


FIG. 64B

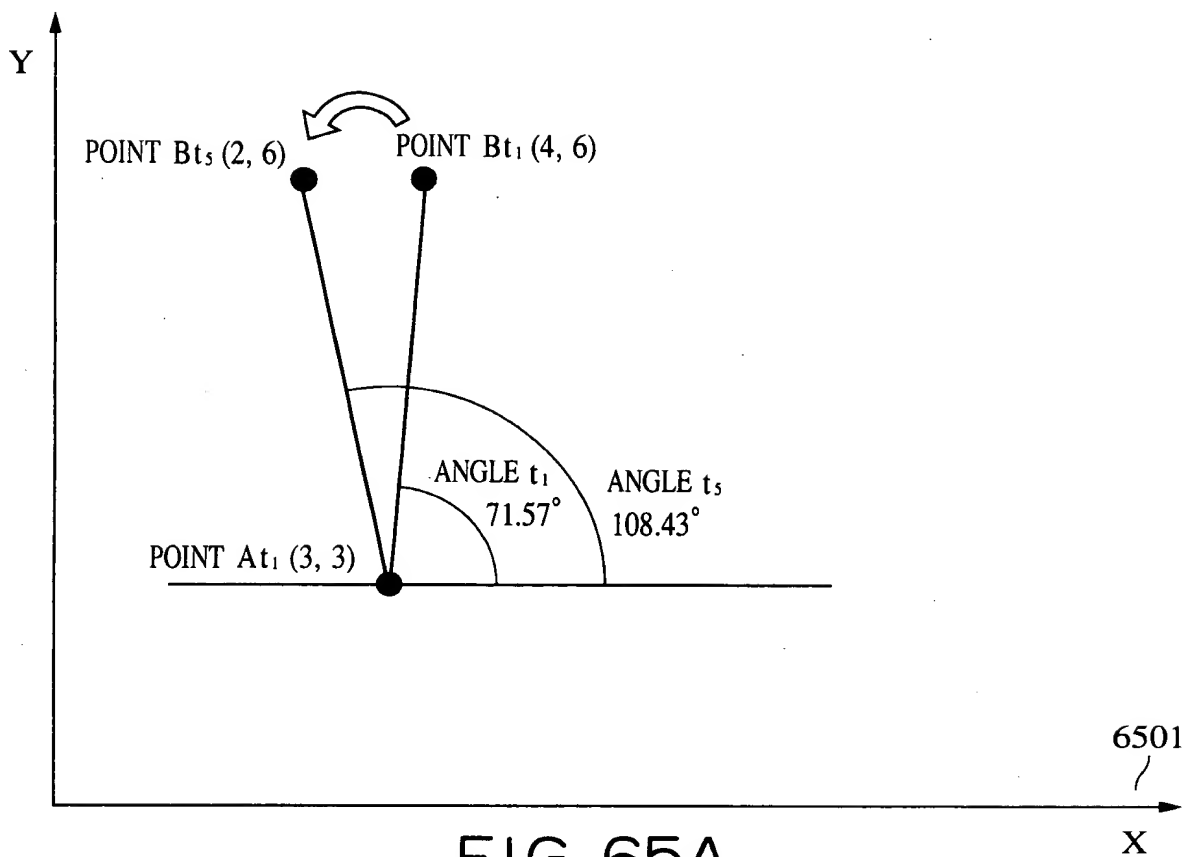


FIG. 65A

DESIGNATED FIXED POSITION
POSITION DATA OF POINT A

	A _x	A _y
t ₁	3	3
t ₂	3	3
t ₃	3	3
t ₄	3	3
t ₅	3	3

FIG. 65B

DESIGNATED MOVING POSITION
POSITION DATA OF POINT B

	B _x	B _y
t ₁	4.0	6.0
t ₂	3.5	6.1
t ₃	3.0	6.2
t ₄	2.5	6.1
t ₅	2.0	6.0

FIG. 65C

DATA OF CHANGE IN ANGLE OF DESIGNATED POSITIONS

	ANGLE OF DESIGNATED FIXED POSITIONS	AMOUNT OF CHANGE
t ₁	71.57	0.00
t ₂	80.90	9.34
t ₃	90.00	18.43
t ₄	99.10	27.53
t ₅	108.43	36.87

FIG. 65D

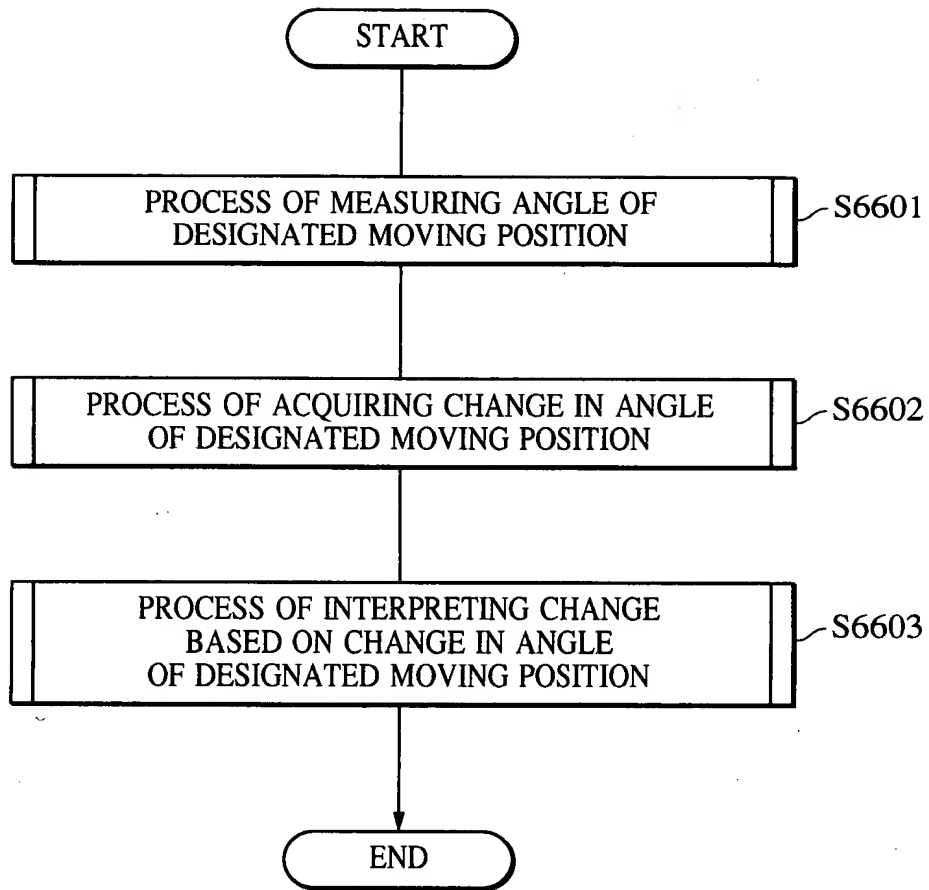


FIG. 66

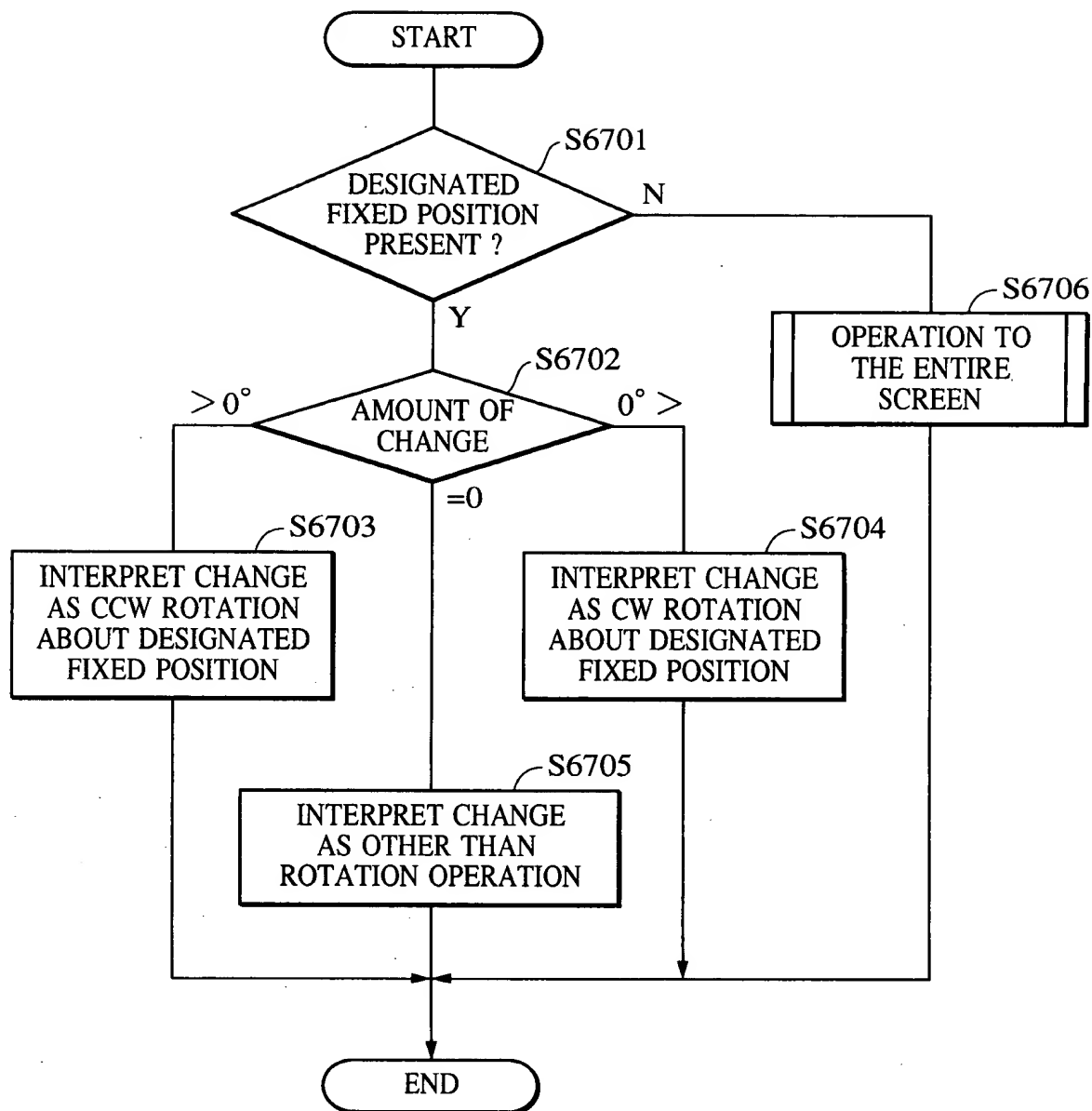


FIG. 67

CW ROTATION OPERATION

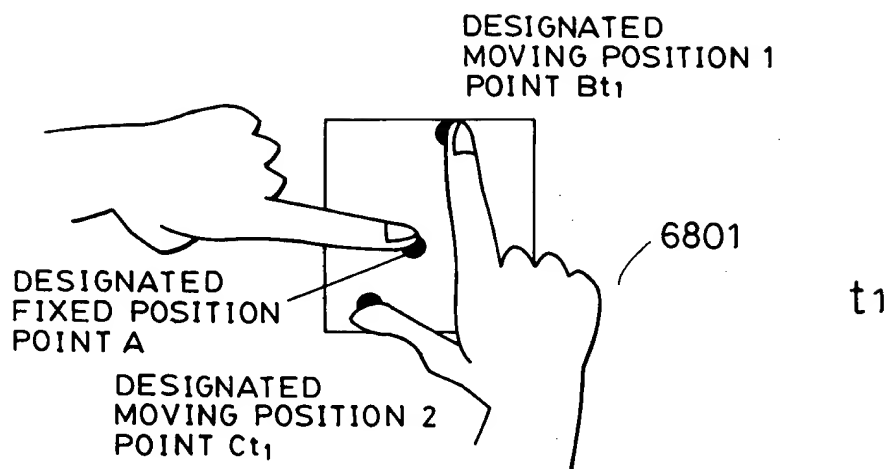


FIG. 68A

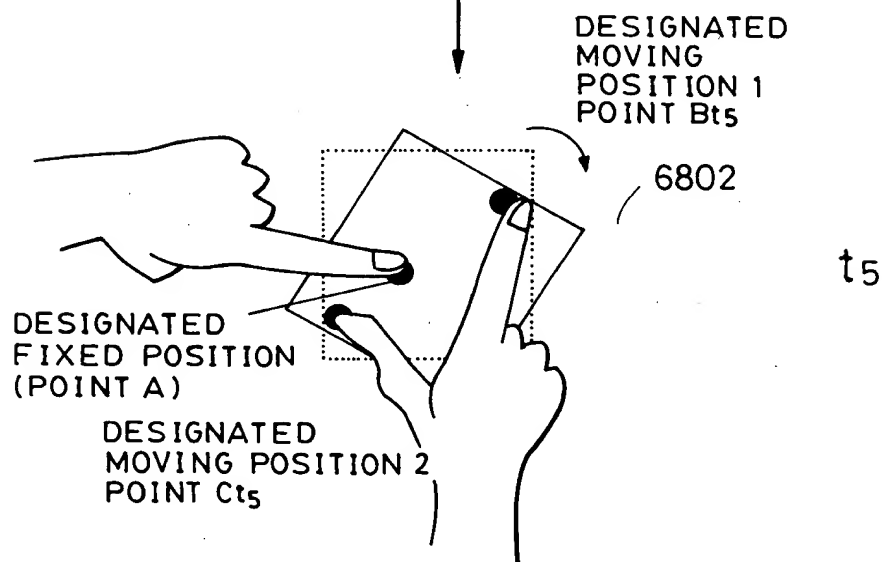


FIG. 68B

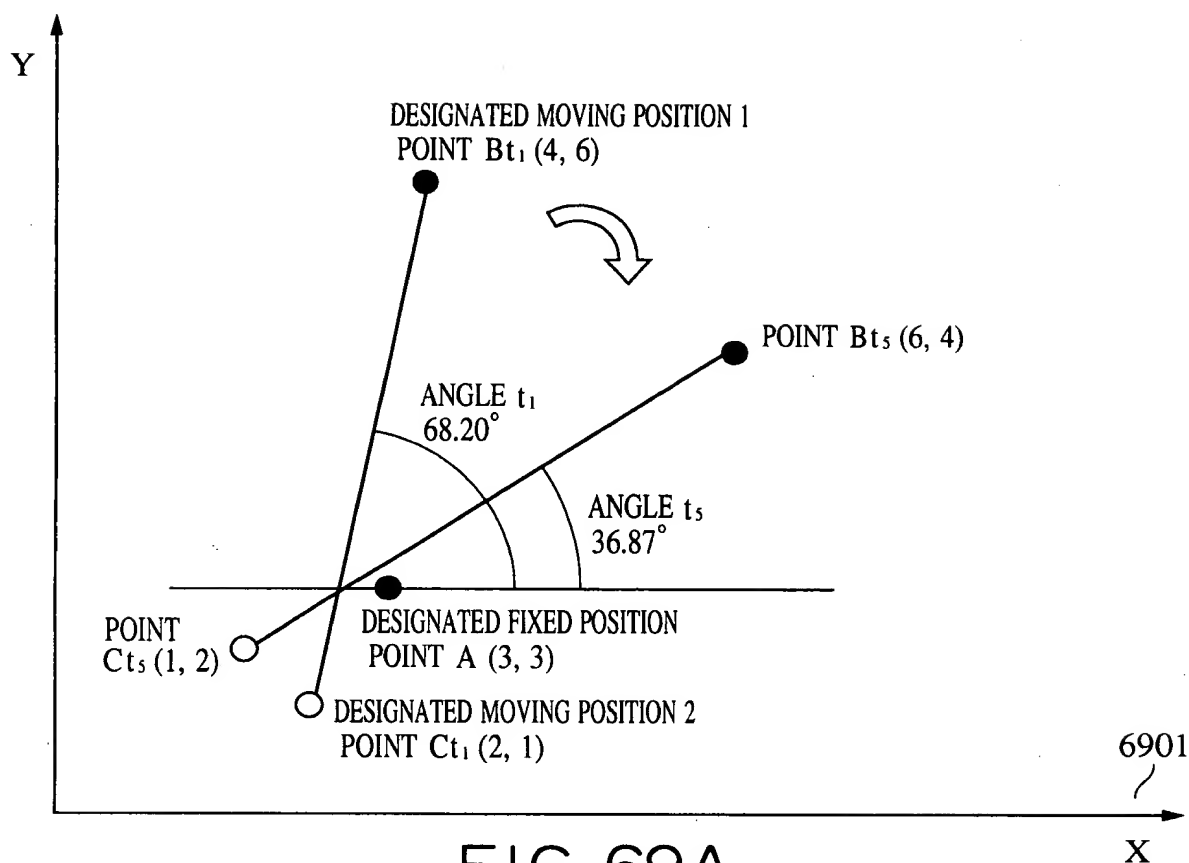


FIG. 69A

DESIGNATED FIXED POSITION
POSITION DATA OF POINT A

	A _x	A _y
t ₁	3	3
t ₂	3	3
t ₃	3	3
t ₄	3	3
t ₅	3	3

FIG. 69B

DESIGNATED MOVING POSITION
POSITION DATA OF POINT B

	B _x	B _y
t ₁	4.0	6.0
t ₂	4.5	5.5
t ₃	5.0	5.0
t ₄	5.5	4.5
t ₅	6.0	4.0

FIG. 69C

DESIGNATED MOVING POSITION
POSITION DATA OF POINT C

	C _x	C _y
t ₁	2	1
t ₂	1.8	1.2
t ₃	1.6	1.5
t ₄	1.4	1.8
t ₅	1	2

FIG. 69D

DATA OF CHANGE IN ANGLE OF DESIGNATED MOVING POSITIONS

	ANGLE OF DESIGNATED MOVING POSITION	AMOUNT OF CHANGE
t ₁	68.20	0.00
t ₂	60.95	-7.25
t ₃	53.13	-15.07
t ₄	45.00	-23.20
t ₅	36.87	-31.33

FIG. 69E

CCW ROTATION OPERATION

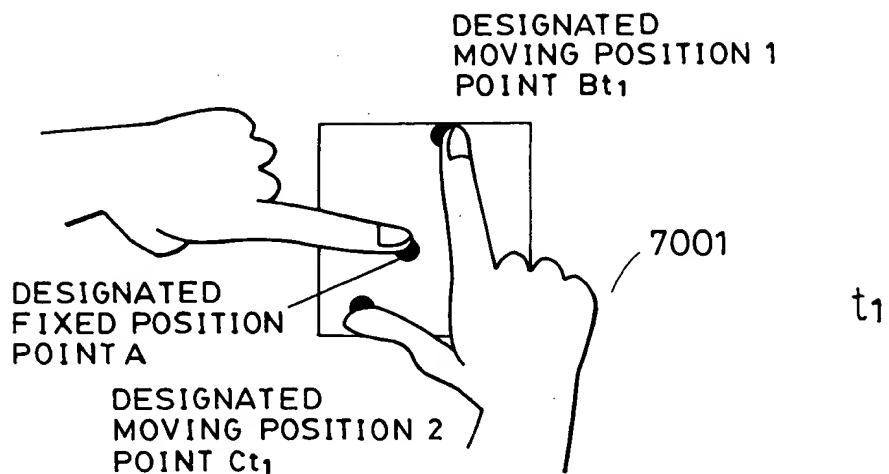


FIG. 70A

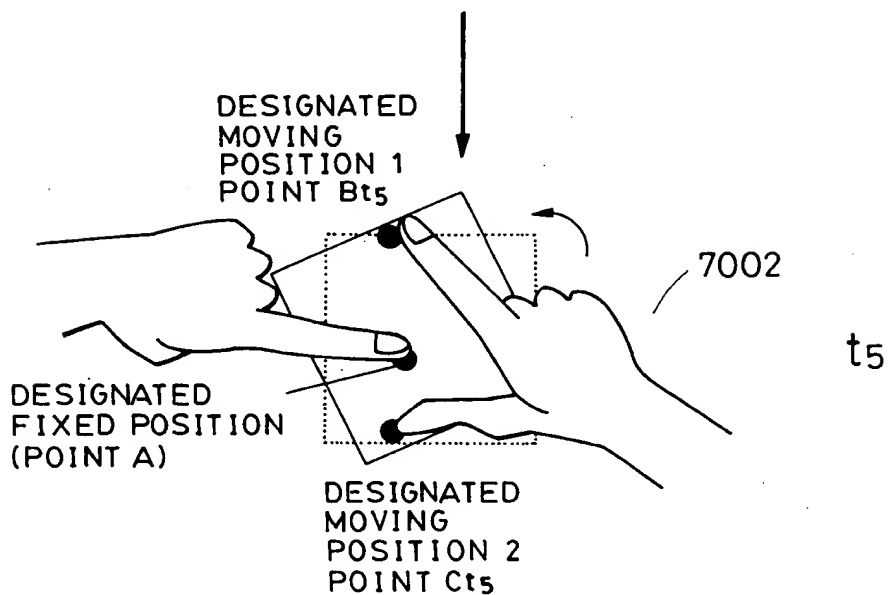


FIG. 70B

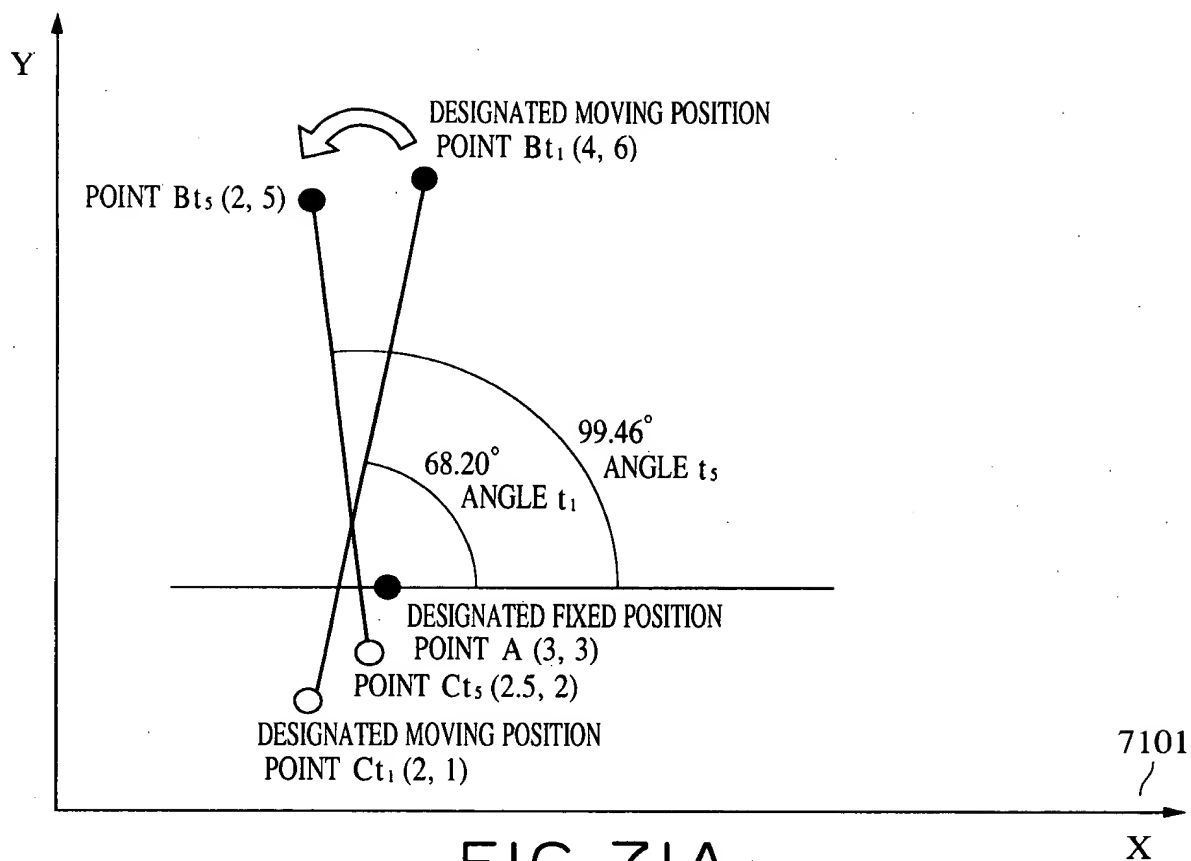


FIG. 71A

DESIGNATED FIXED POSITION
POSITION DATA OF POINT A

	A _x	A _y
t ₁	3	3
t ₂	3	3
t ₃	3	3
t ₄	3	3
t ₅	3	3

FIG. 71B

DESIGNATED MOVING POSITION
POSITION DATA OF POINT B

	B _x	B _y
t ₁	4.0	6.0
t ₂	3.5	5.8
t ₃	3.0	5.4
t ₄	2.5	5.2
t ₅	2.0	5.0

FIG. 71C

DESIGNATED MOVING POSITION
POSITION DATA OF POINT C

	C _x	C _y
t ₁	2	1
t ₂	2.1	1.2
t ₃	2.3	1.5
t ₄	2.4	1.8
t ₅	2.5	2

FIG. 71D

DATA OF CHANGE IN ANGLE OF DESIGNATED MOVING POSITIONS

	ANGLE OF DESIGNATED MOVING POSITION	AMOUNT OF CHANGE
t ₁	68.20	0.00
t ₂	73.07	4.87
t ₃	79.82	11.63
t ₄	88.32	20.12
t ₅	99.46	31.26

FIG. 71E

ROTATION OPERATION ABOUT THE CENTER OF GRAVITY OF DESIGNATED MOVING POSITION

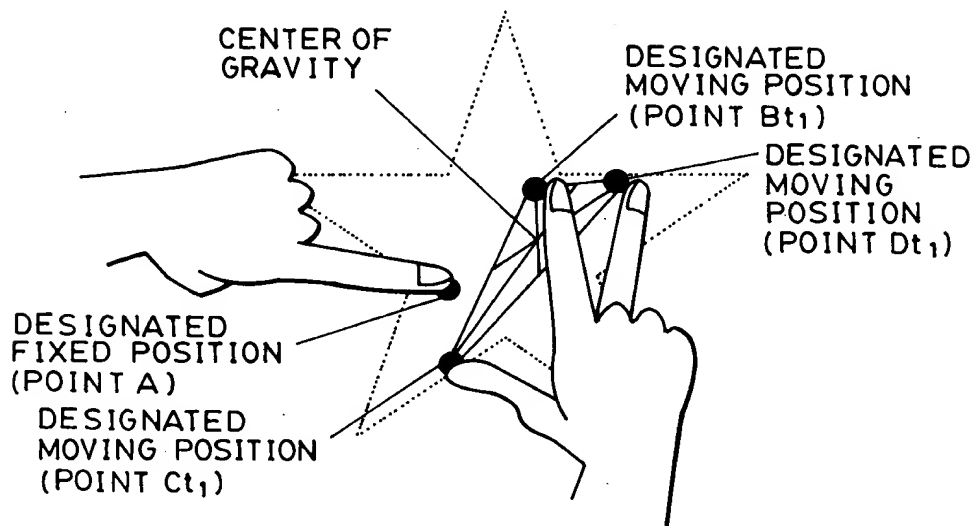


FIG. 72A

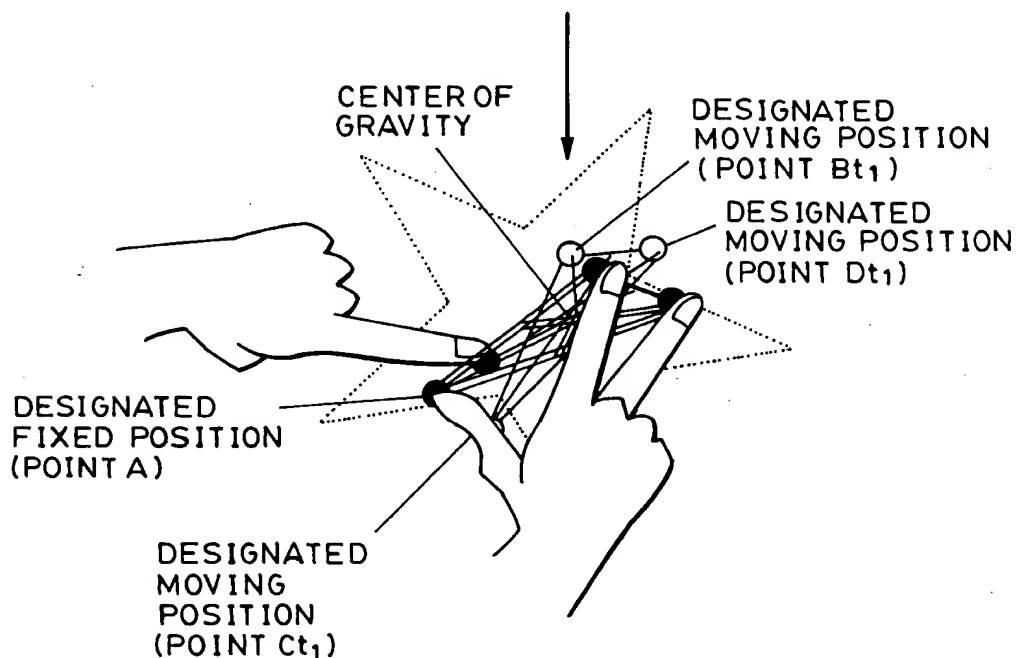


FIG. 72B

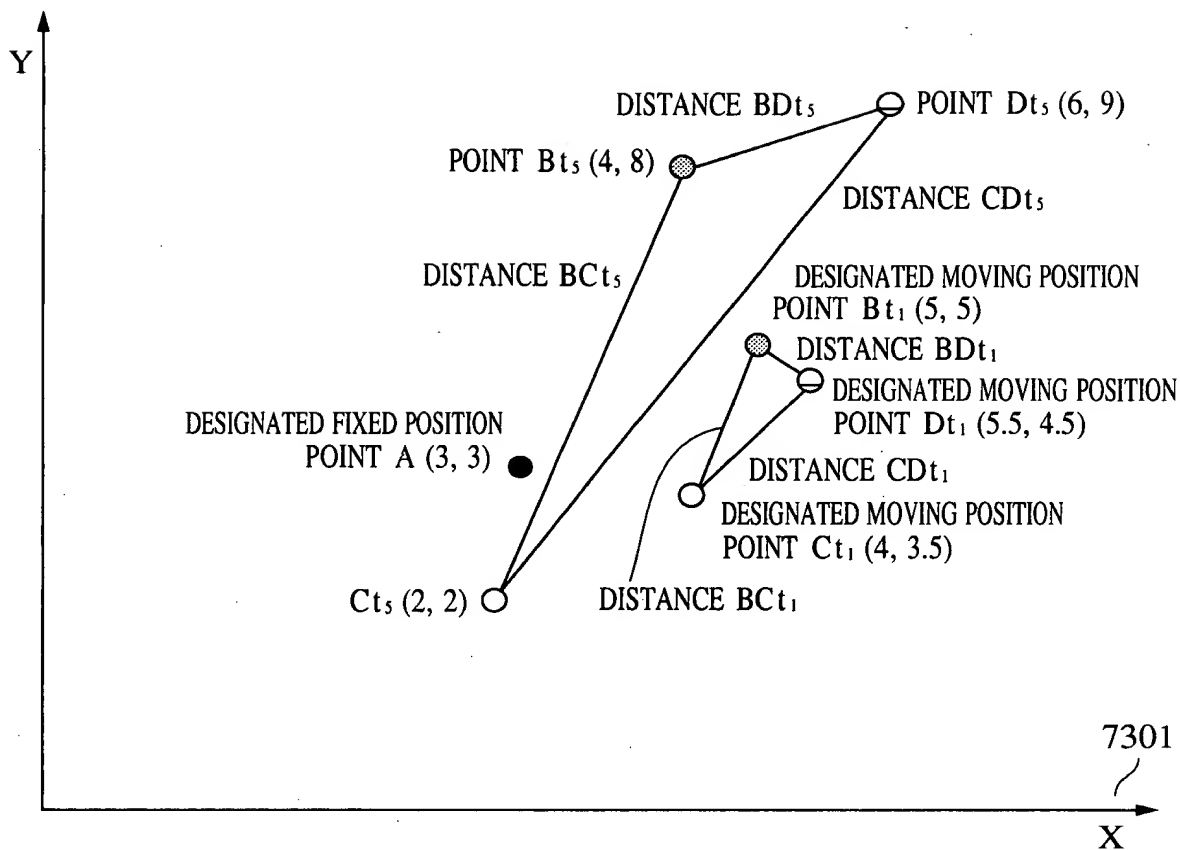


FIG. 73A

DESIGNATED FIXED POSITION
POSITION DATA OF POINT A

	A _x	A _y
t ₁	3	3
t ₂	3	3
t ₃	3	3
t ₄	3	3
t ₅	3	3

DESIGNATED MOVING POSITION
POSITION DATA OF POINT B

	B _x	B _y
t ₁	5.0	5.0
t ₂	4.7	5.8
t ₃	4.4	6.3
t ₄	4.2	7.2
t ₅	4.0	8.0

DESIGNATED MOVING POSITION
POSITION DATA OF POINT C

	C _x	C _y
t ₁	4.0	3.5
t ₂	3.8	3.3
t ₃	3.4	2.8
t ₄	2.8	2.3
t ₅	2.0	2.0

DESIGNATED MOVING POSITION
POSITION DATA OF POINT D

	D _x	D _y
t ₁	5.5	4.5
t ₂	5.6	6.0
t ₃	5.8	7.0
t ₄	5.9	8.0
t ₅	6.0	9.0

7302

FIG. 73B

FIG. 73C

FIG. 73D

FIG. 73E

DATA OF CHANGE IN DESIGNATED
POSITION-TO-POSITION DISTANCE

	DISTANCE BETWEEN B AND C	MAGNIFICATION (DISTANCE t _a / DISTANCE t ₁)
t ₁	1.803	100%
t ₂	2.657	147%
t ₃	3.640	202%
t ₄	5.096	283%
t ₅	6.325	351%

DATA OF CHANGE IN DESIGNATED
POSITION-TO-POSITION DISTANCE

	DISTANCE BETWEEN B AND D	MAGNIFICATION (DISTANCE t _a / DISTANCE t ₁)
t ₁	0.707	100%
t ₂	0.922	130%
t ₃	1.565	221%
t ₄	1.879	266%
t ₅	2.236	316%

DATA OF CHANGE IN DESIGNATED
POSITION-TO-POSITION DISTANCE

	DISTANCE BETWEEN C AND D	MAGNIFICATION (DISTANCE t _a / DISTANCE t ₁)
t ₁	1.803	100%
t ₂	3.245	180%
t ₃	4.837	268%
t ₄	6.488	360%
t ₅	8.062	447%

7303

FIG. 73F

FIG. 73G

FIG. 73H

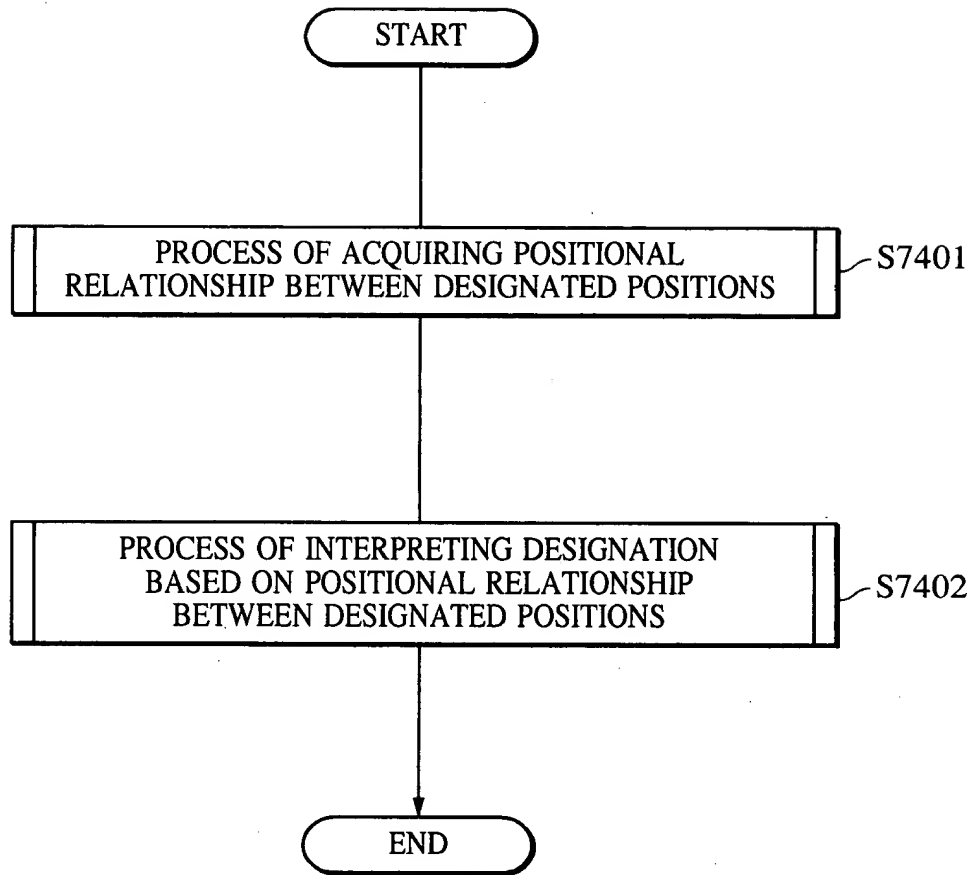


FIG. 74

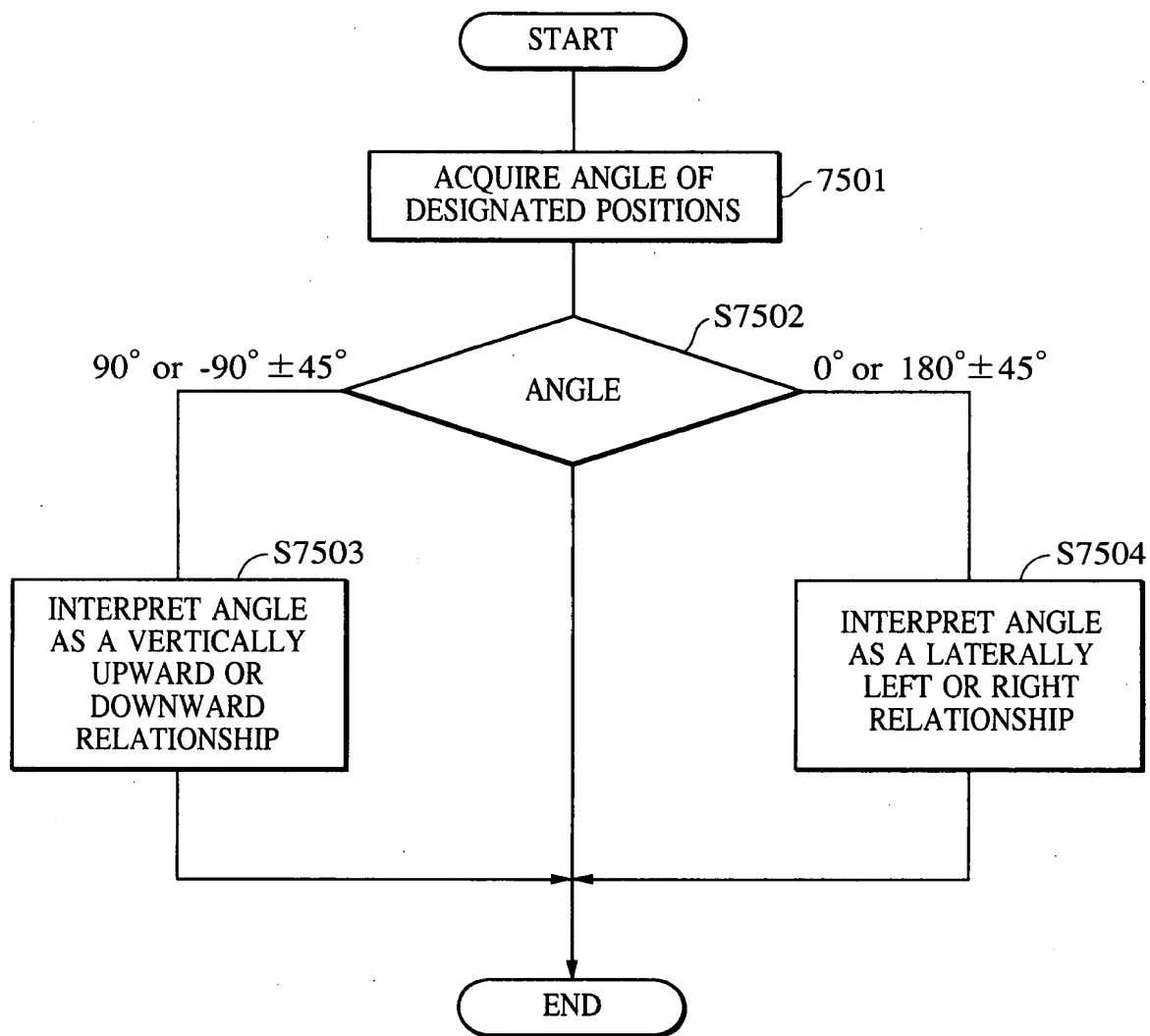


FIG. 75

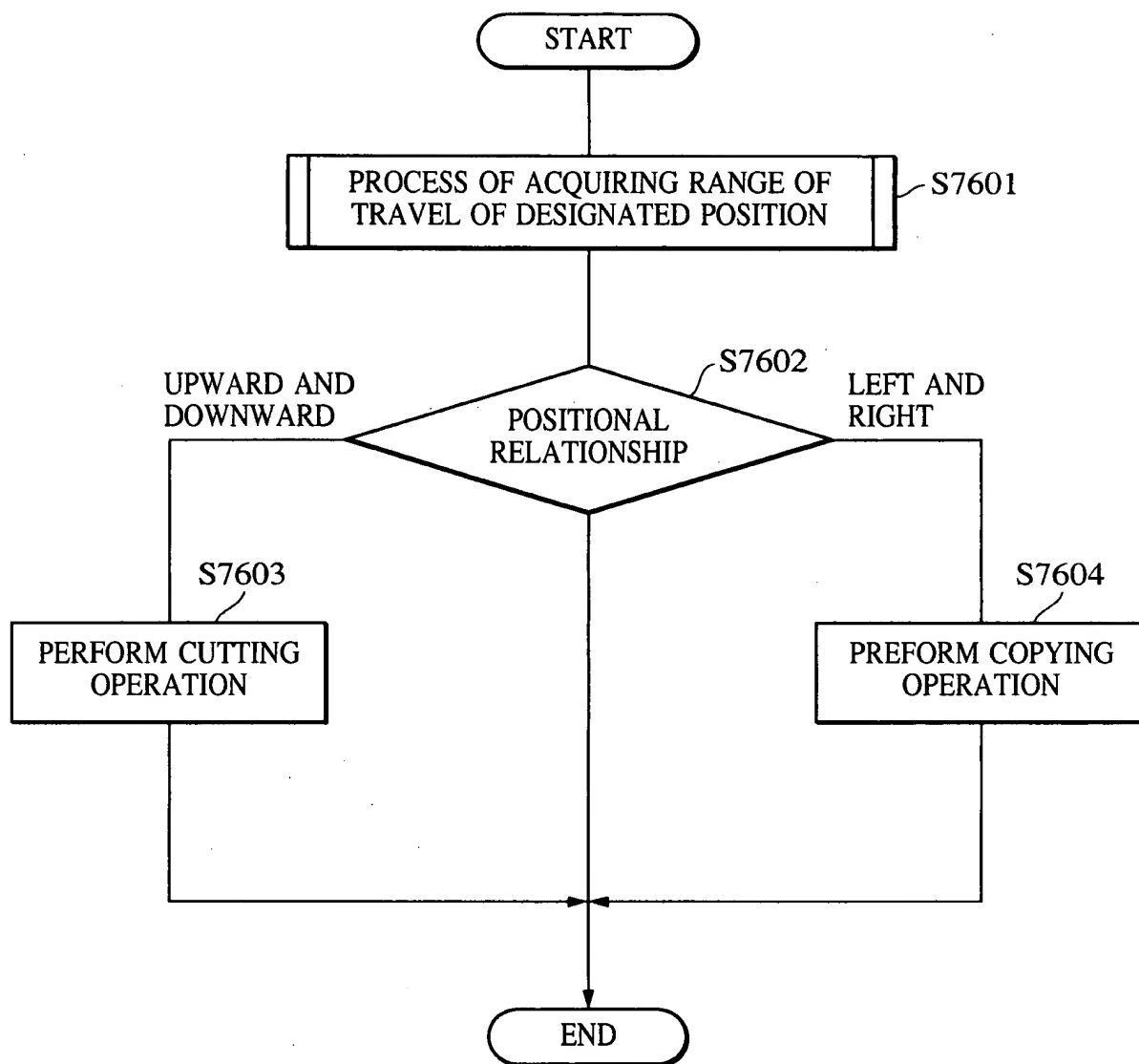


FIG. 76

PARALLEL TRAVEL WITH VERTICAL
RELATIONSHIP MAINTAINED

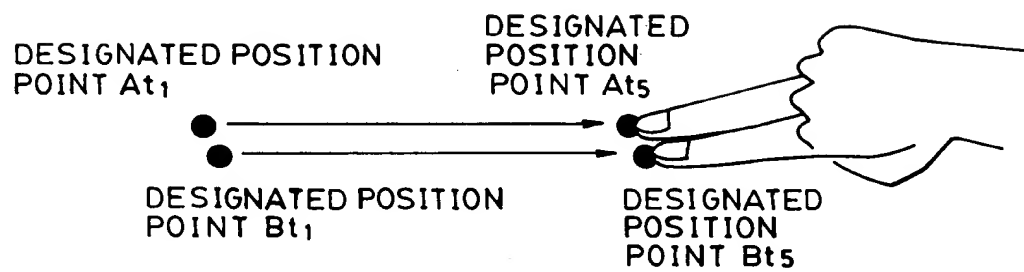


FIG. 77

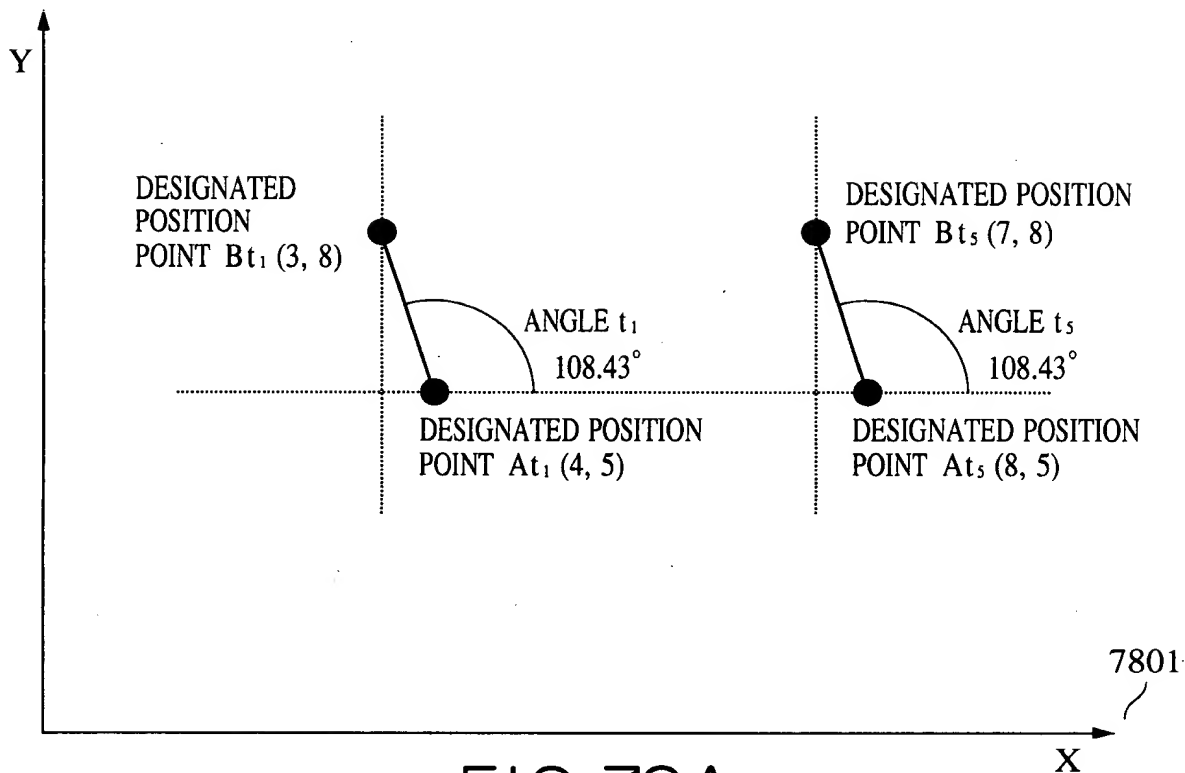


FIG. 78A

DESIGNATED POSITION
POSITION DATA OF POINT A

	A_x	A_y
t_1	4.0	5.0
t_2	5.0	5.0
t_3	6.0	5.0
t_4	7.0	5.0
t_5	8.0	5.0

FIG. 78B

DESIGNATED POSITION
POSITION DATA OF POINT B

	B_x	B_y
t_1	3.0	8.0
t_2	4.0	8.0
t_3	5.0	8.0
t_4	6.0	8.0
t_5	7.0	8.0

FIG. 78C

POSITION DATA OF DESIGNATED POSITIONS

	ANGLE OF DESIGNATED POSITIONS
t_1	108.43
t_2	108.43
t_3	108.43
t_4	108.43
t_5	108.43

FIG. 78D

PARALLEL TRAVEL WITH LATERAL
RELATIONSHIP MAINTAINED

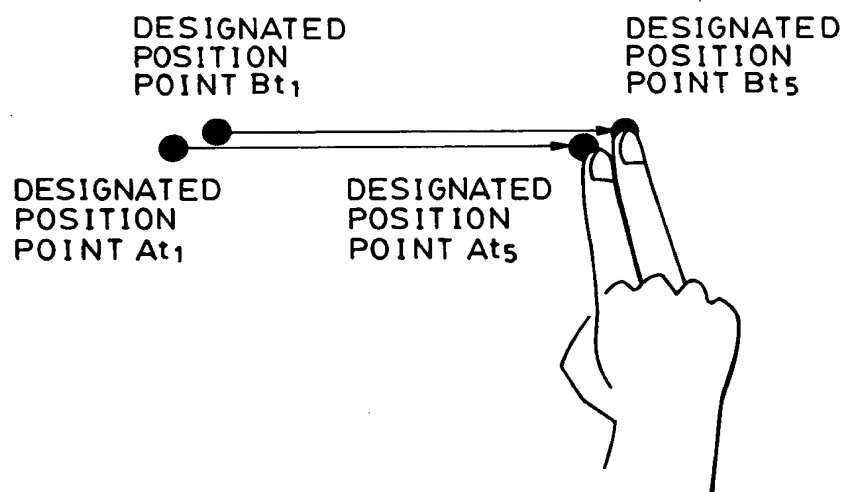


FIG. 79

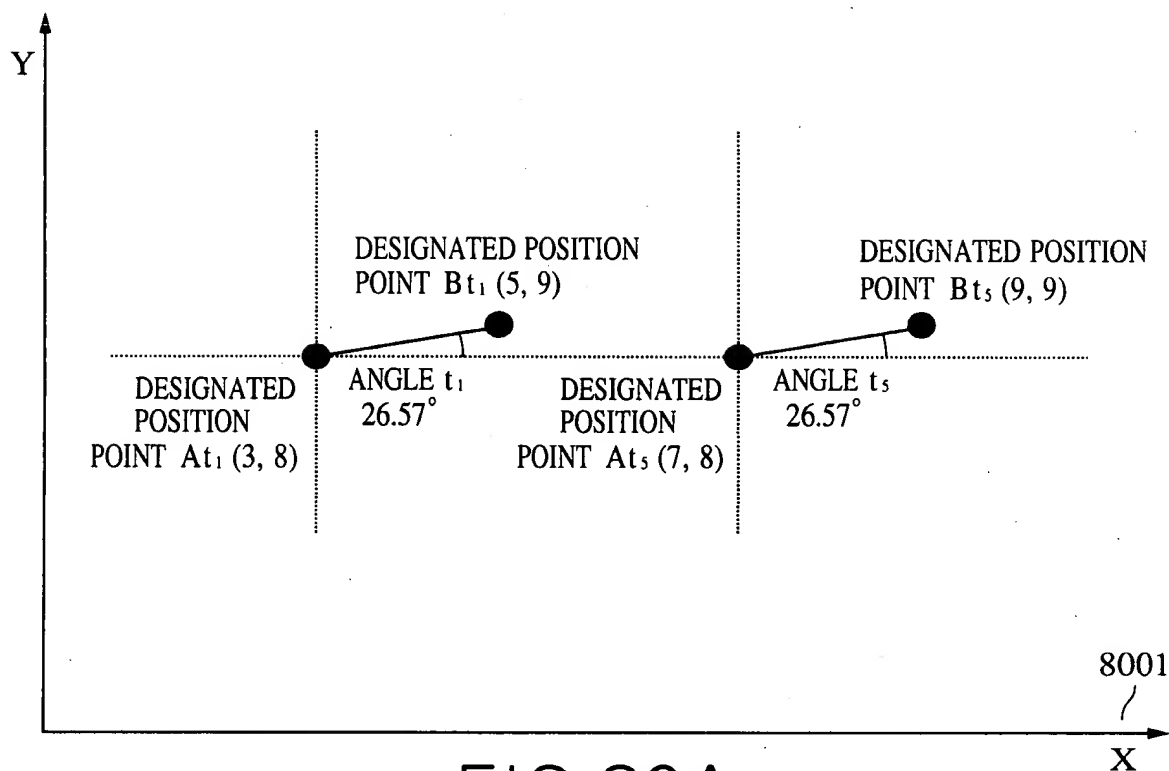


FIG. 80A

DESIGNATED POSITION
POSITION DATA OF POINT A

	A_x	A_y
t_1	3.0	8.0
t_2	4.0	8.0
t_3	5.0	8.0
t_4	6.0	8.0
t_5	7.0	8.0

FIG. 80B

DESIGNATED POSITION
POSITION DATA OF POINT B

	B_x	B_y
t_1	5.0	9.0
t_2	6.0	9.0
t_3	7.0	9.0
t_4	8.0	9.0
t_5	9.0	9.0

8002

FIG. 80C

POSITION DATA OF DESIGNATED POSITIONS

	ANGLE OF DESIGNATED POSITIONS
t_1	26.57
t_2	26.57
t_3	26.57
t_4	26.57
t_5	26.57

8003

FIG. 80D

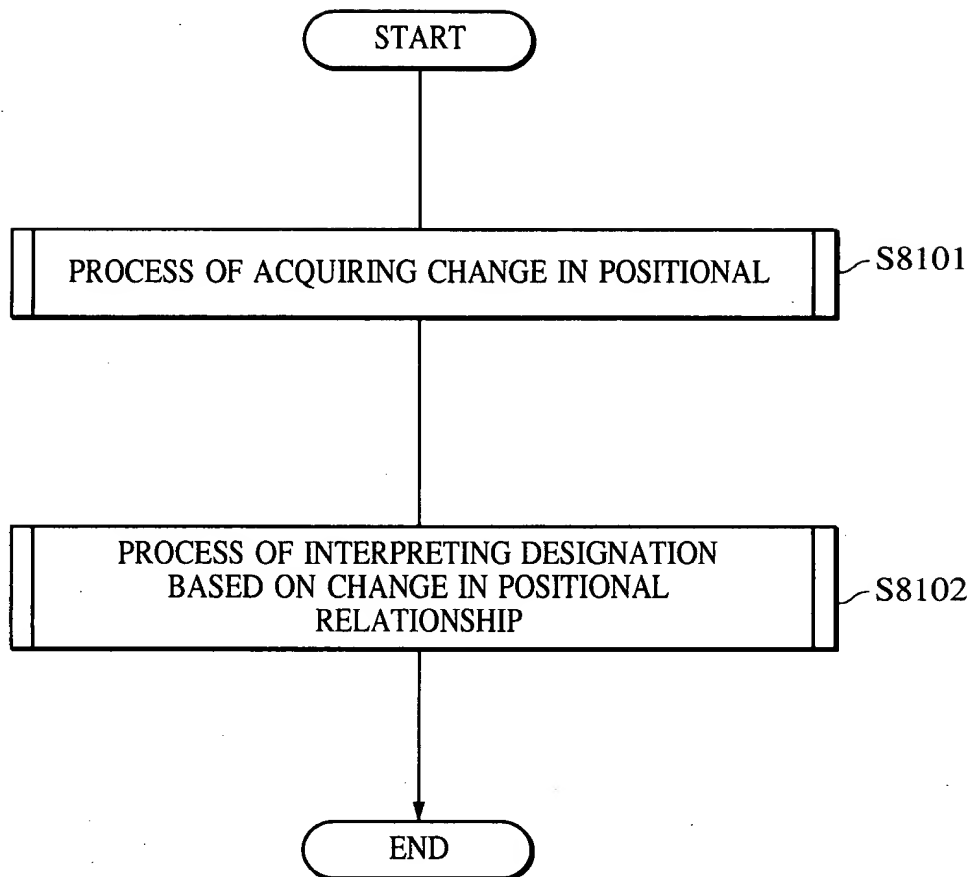


FIG. 81

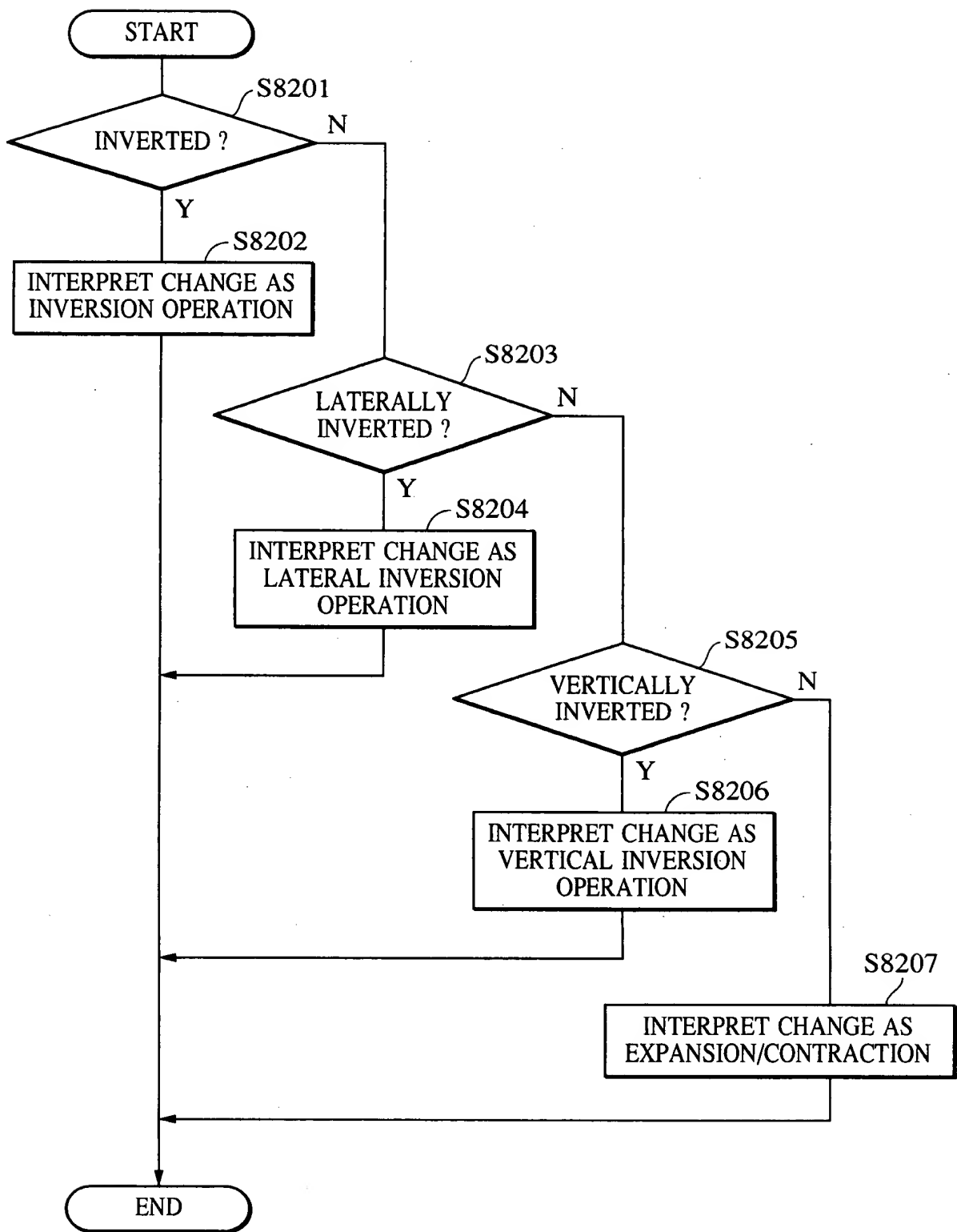


FIG. 82

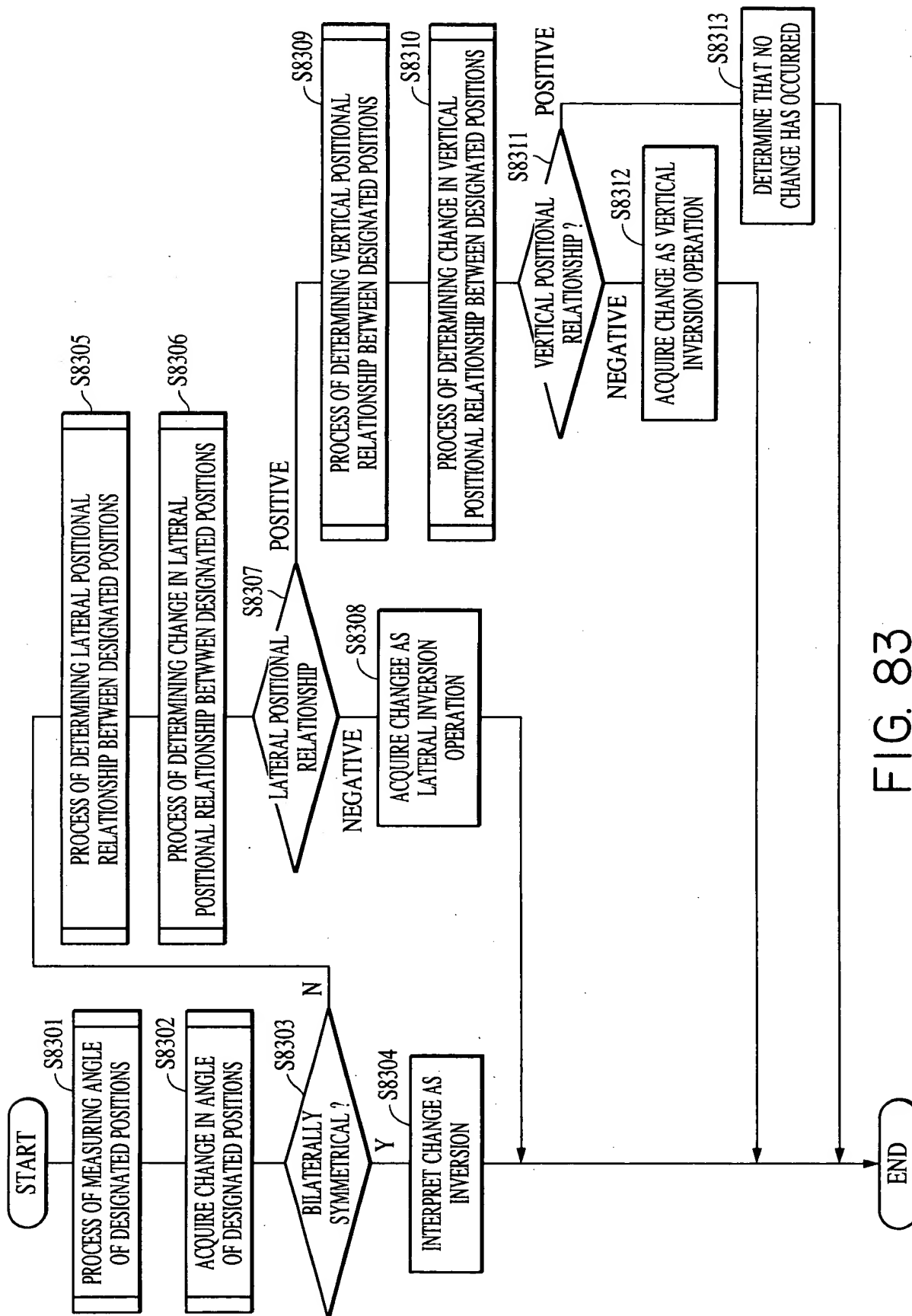


FIG. 83

REVERSAL OPERATION

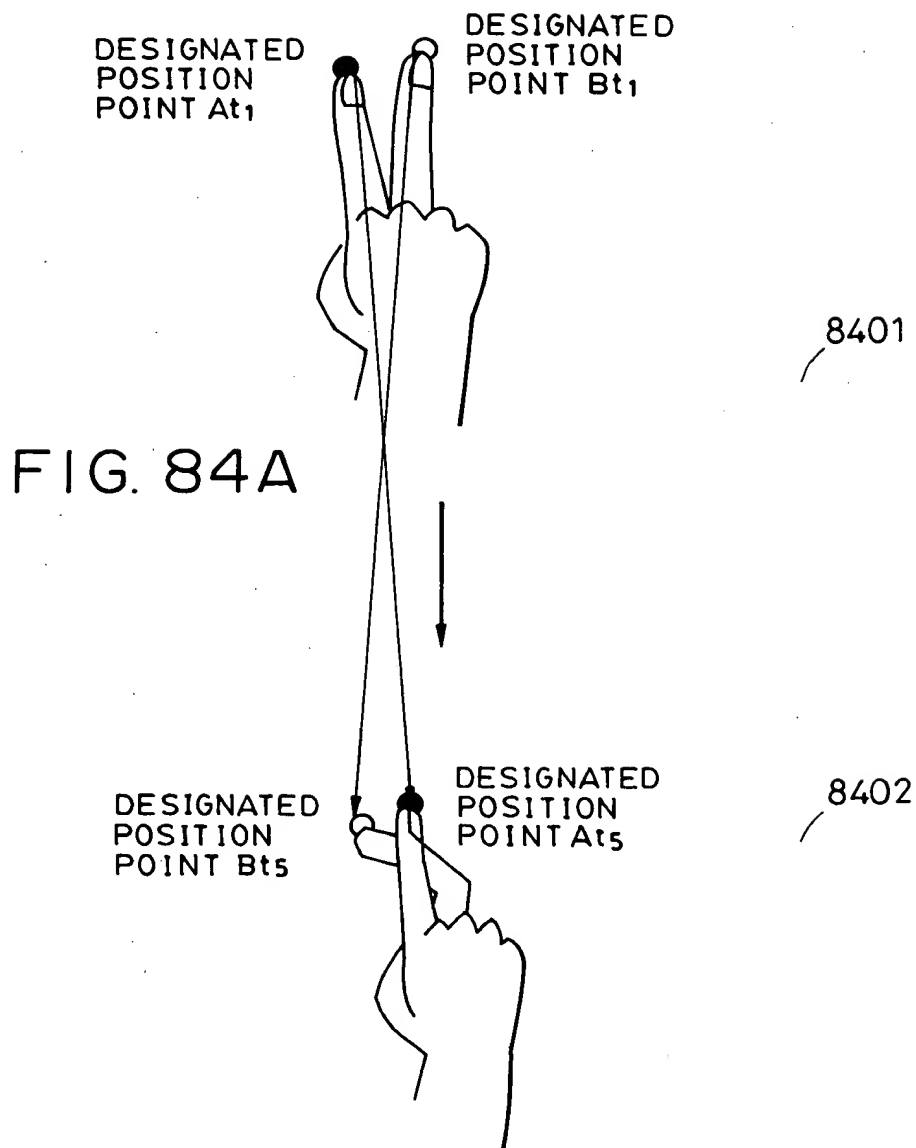


FIG. 84B

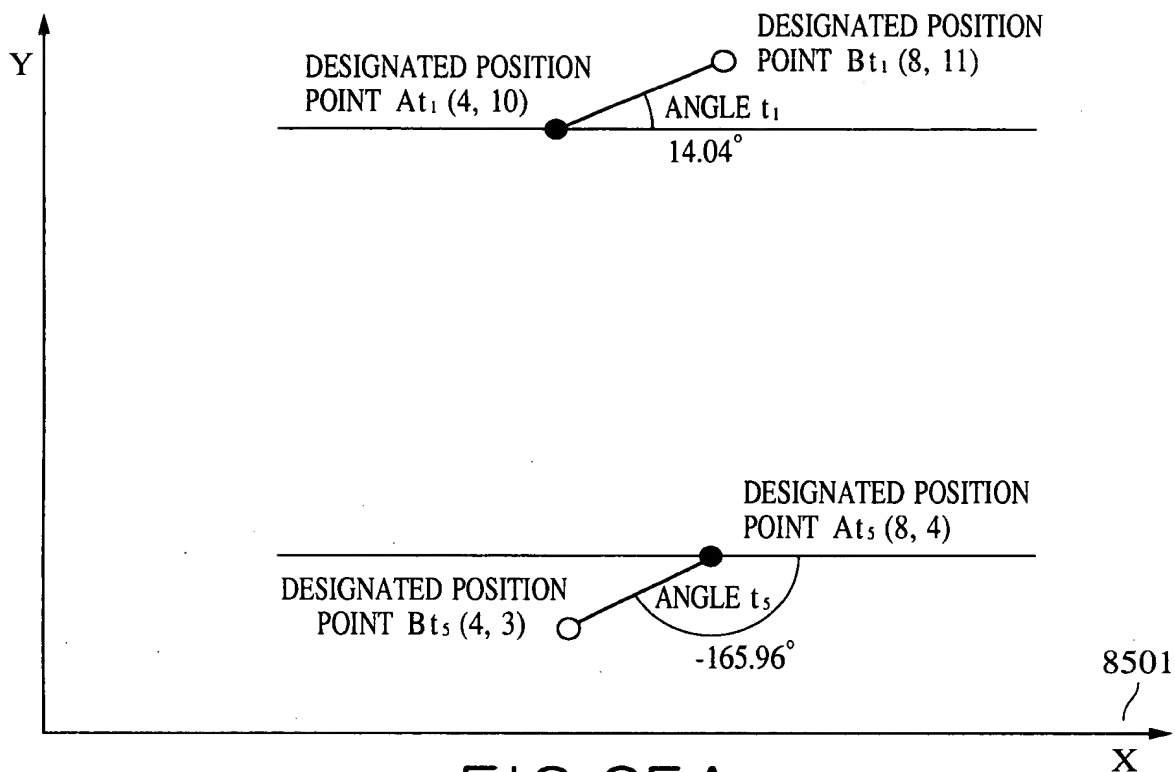


FIG. 85A

DESIGNATED POSITION
POSITION DATA OF POINT A

	A_x	A_y
t_1	4.0	10.0
t_2	5.0	8.0
t_3	6.0	6.0
t_4	7.0	5.0
t_5	8.0	4.0

FIG. 85B

DESIGNATED POSITION
POSITION DATA OF POINT B

	B_x	B_y
t_1	8.0	11.0
t_2	7.0	9.0
t_3	6.0	7.0
t_4	5.0	5.0
t_5	4.0	3.0

8502

FIG. 85C

DATA OF CHANGE IN POSITIONAL RELATIONSHIP

	X DIRECTION	Y DIRECTION	ANGLE OF DESIGNATED POSITIONS	CHANGE IN POSITIONAL RELATIONSHIP
t_1	-4.0	-1.0	14.04	0.00
t_2	-2.0	-1.0	26.57	-12.53
t_3	0.0	-1.0	90.00	-75.99
t_4	2.0	0.0	180.00	-165.96
t_5	4.0	1.0	-165.96	180.00

8503

FIG. 85D

LATERAL INVERSION

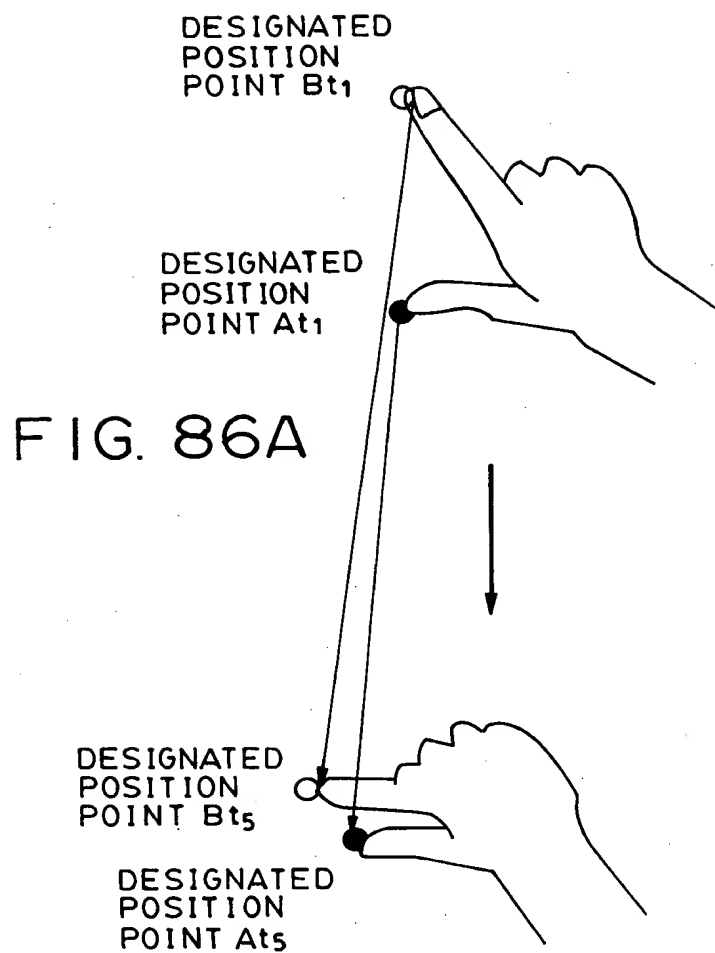


FIG. 86B

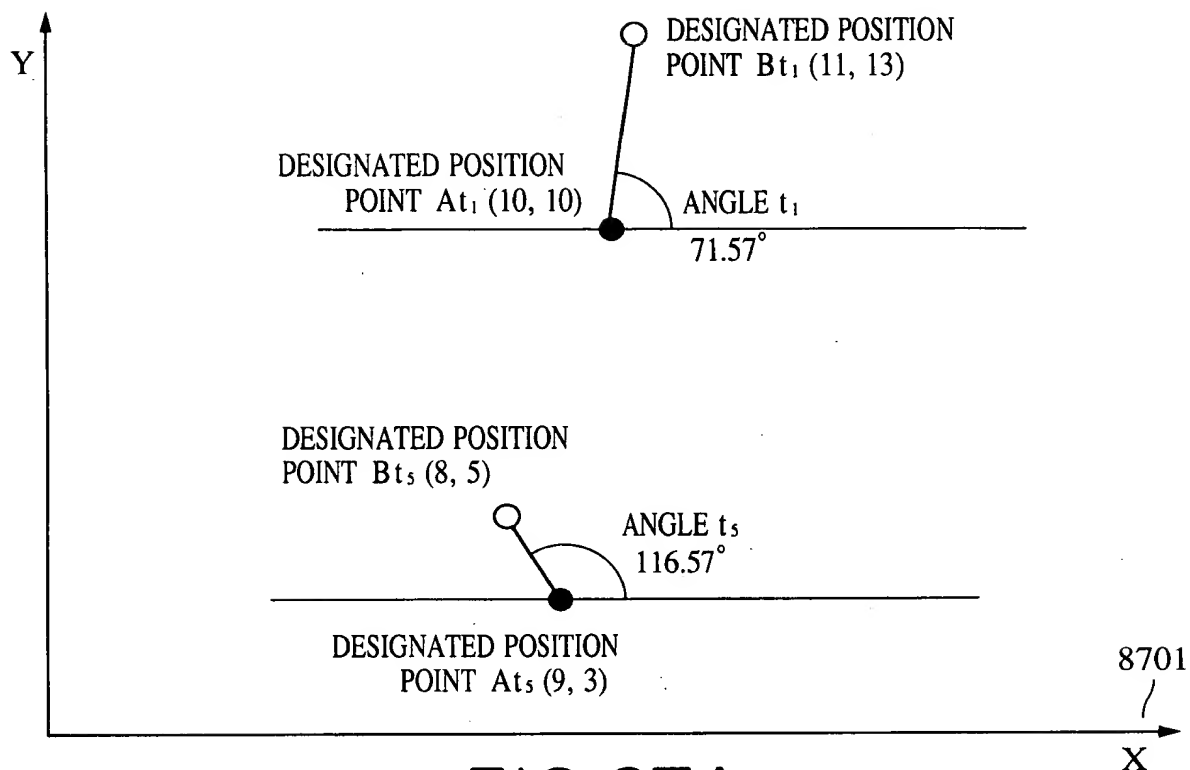


FIG. 87A

DESIGNATED POSITION
POSITION DATA OF POINT A

	A_x	A_y
t_1	10.0	10.0
t_2	9.8	8.0
t_3	9.6	6.0
t_4	9.3	5.0
t_5	9.0	3.0

FIG. 87B

DESIGNATED POSITION
POSITION DATA OF POINT B

	B_x	B_y
t_1	11.0	13.0
t_2	10.8	9.0
t_3	10.6	7.0
t_4	10.3	6.0
t_5	8.0	5.0

FIG. 87C

DATA OF CHANGE IN POSITIONAL RELATIONSHIP

	X DIRECTION	Y DIRECTION	ANGLE OF DESIGNATED POSITIONS	CHANGE IN POSITIONAL RELATIONSHIP
t_1	-1.0	-3.0	71.57	0.00
t_2	-1.0	-1.0	45.00	26.57
t_3	-1.0	-1.0	45.00	26.57
t_4	-1.0	-1.0	45.00	26.57
t_5	1.0	-2.0	116.57	45.00

FIG. 87D

VERTICAL INVERSION

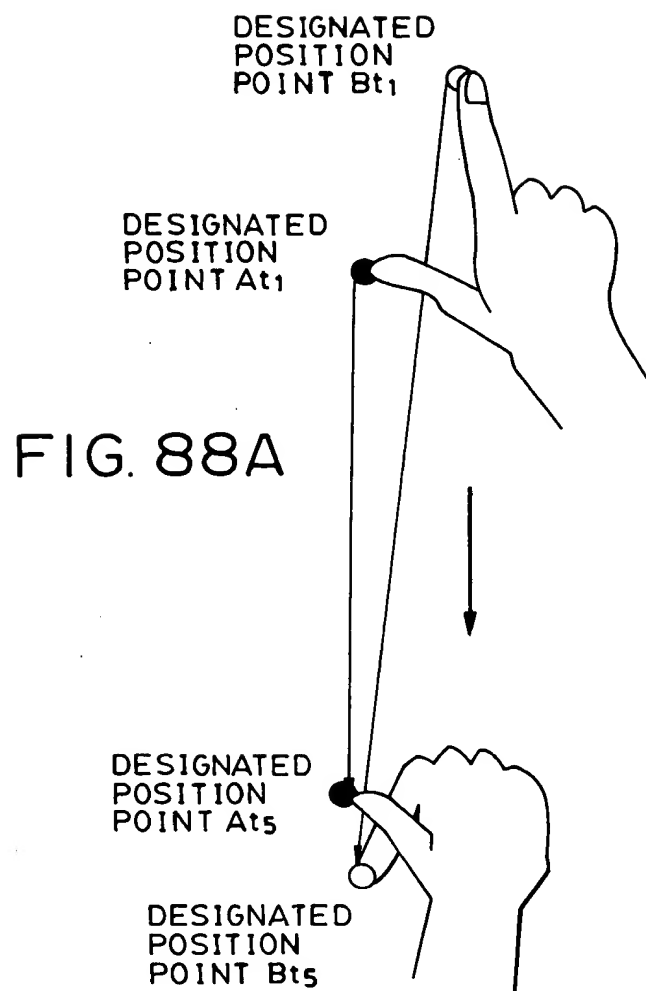


FIG. 88B

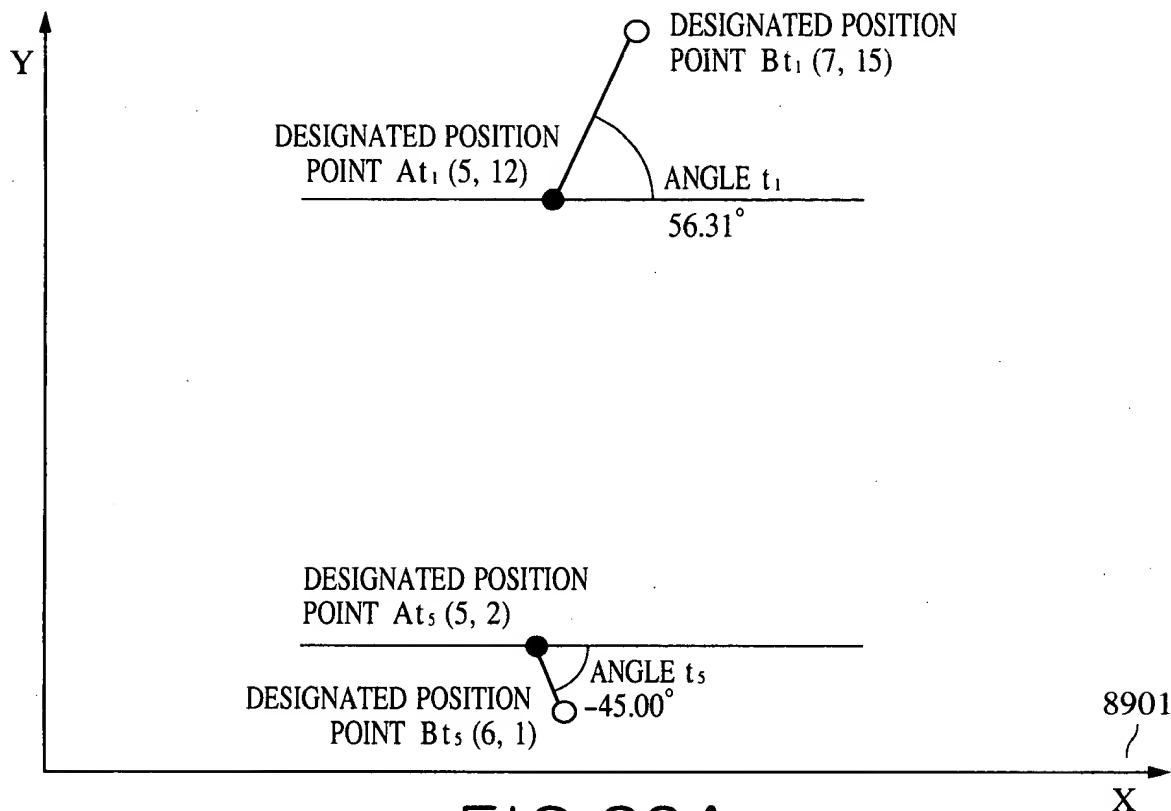


FIG. 89A

DESIGNATED POSITION
POSITION DATA OF POINT A

	A_x	A_y
t_1	5.0	12.0
t_2	5.0	9.0
t_3	5.0	6.0
t_4	5.0	3.0
t_5	5.0	2.0

FIG. 89B

DESIGNATED POSITION
POSITION DATA OF POINT B

	B_x	B_y
t_1	7.0	15.0
t_2	6.8	11.0
t_3	6.5	8.0
t_4	6.2	4.0
t_5	6.0	1.0

FIG. 89C

DATA OF CHANGE IN POSITIONAL RELATIONSHIP

	X DIRECTION	Y DIRECTION	ANGLE OF DESIGNATED POSITIONS	CHANGE IN POSITIONAL RELATIONSHIP
t_1	-2.0	-3.0	56.31	0.00
t_2	-1.8	-2.0	48.01	8.30
t_3	-1.5	-2.0	53.13	3.18
t_4	-1.2	-1.0	39.81	16.50
t_5	-1.0	1.0	-45.00	101.31

FIG. 89D

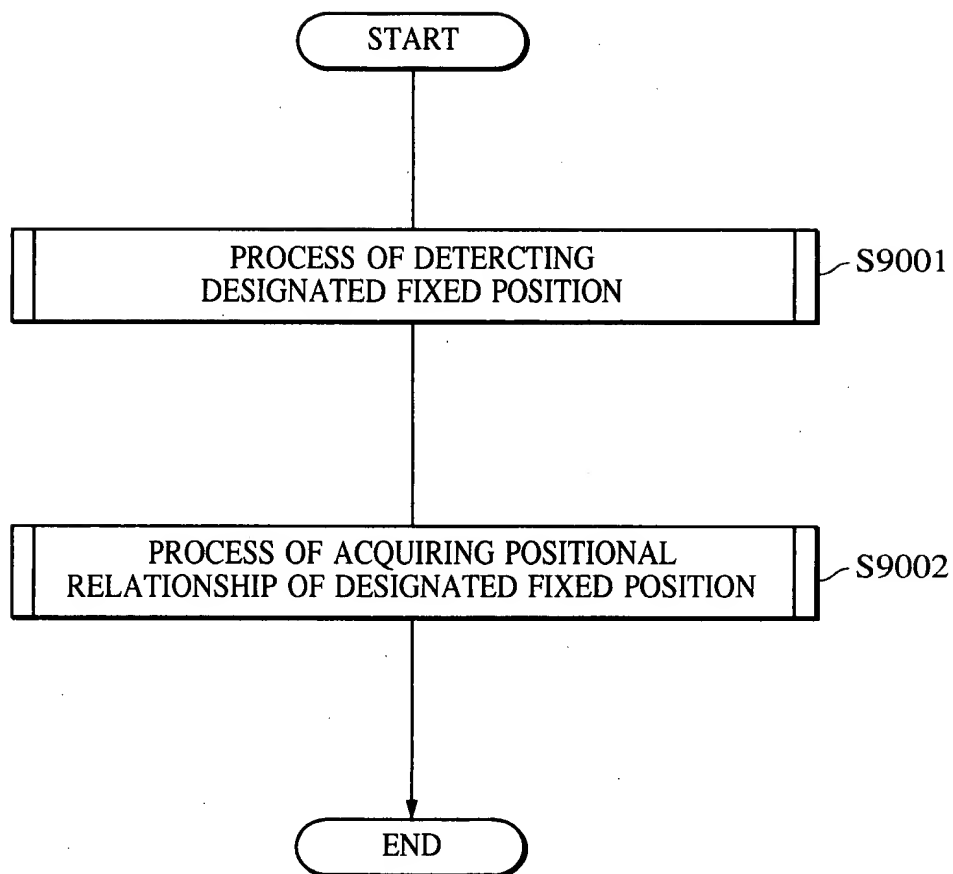


FIG. 90

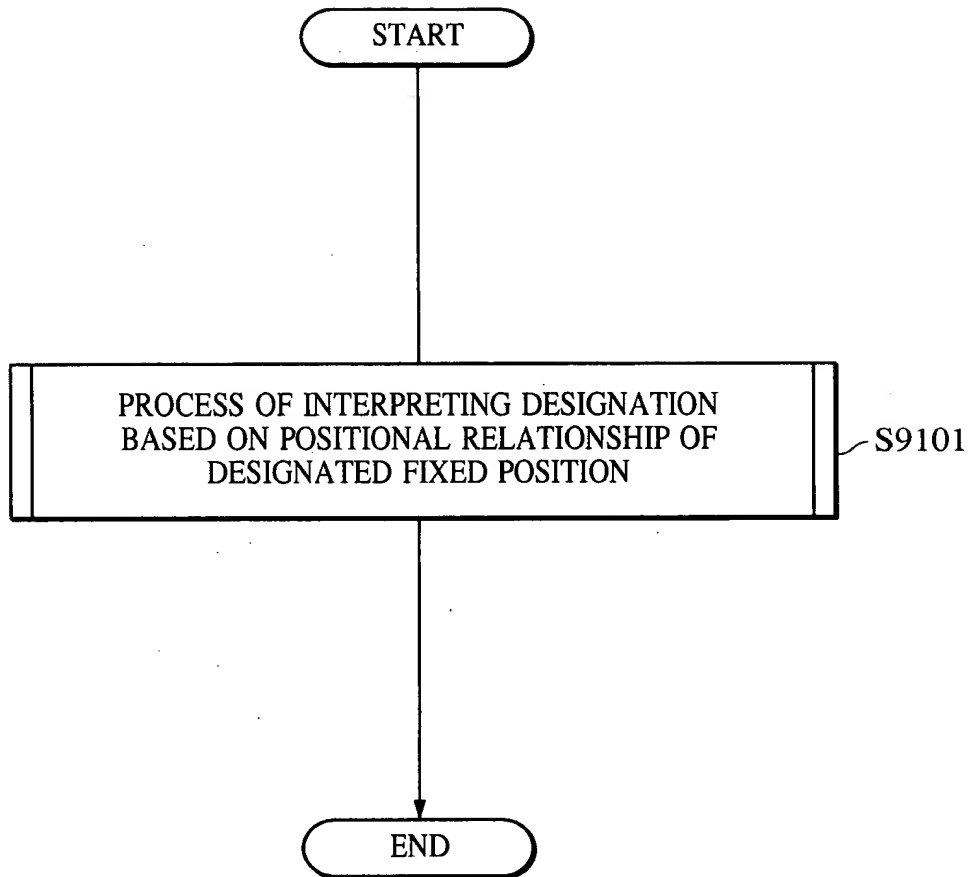


FIG. 91

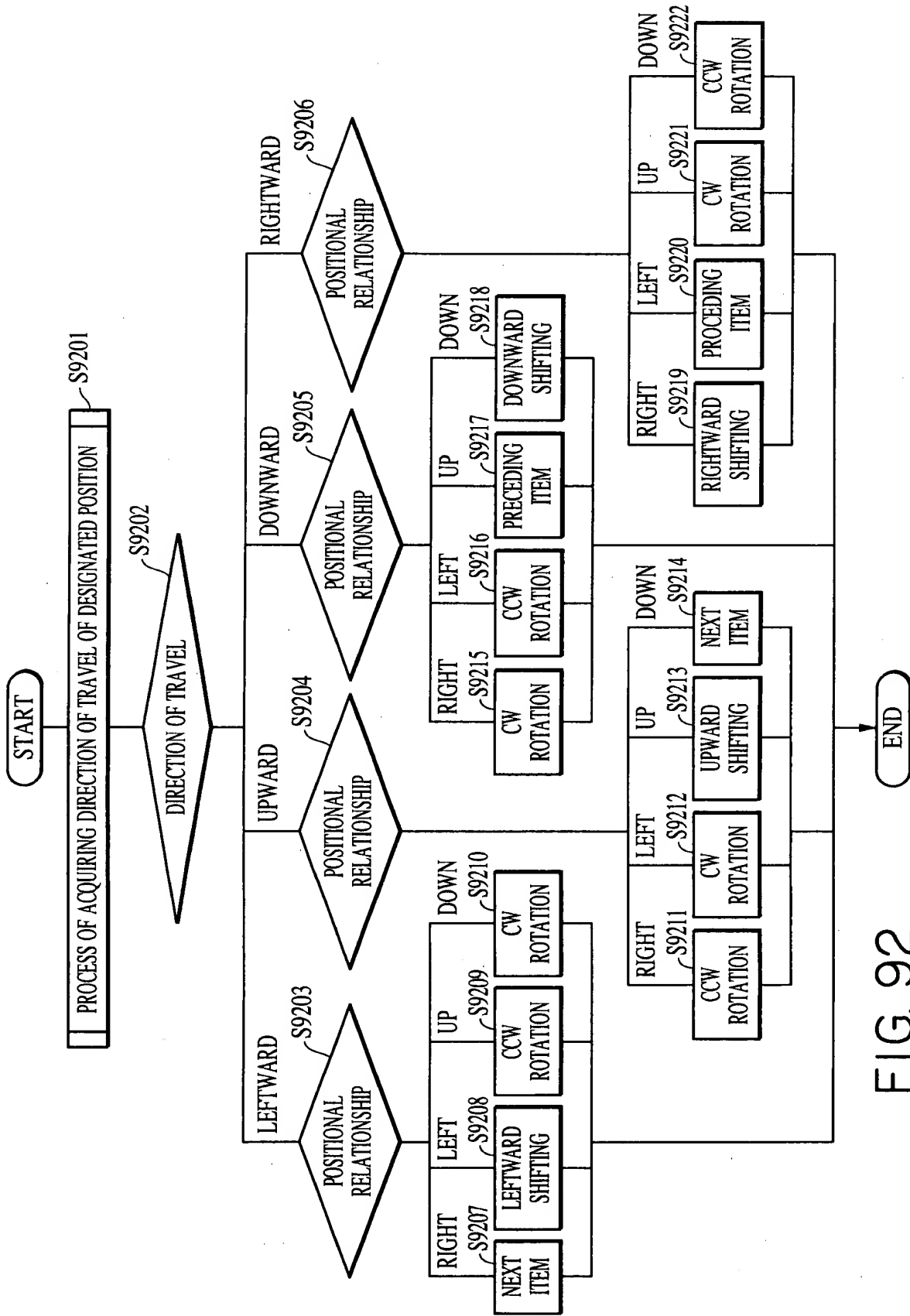


FIG. 92

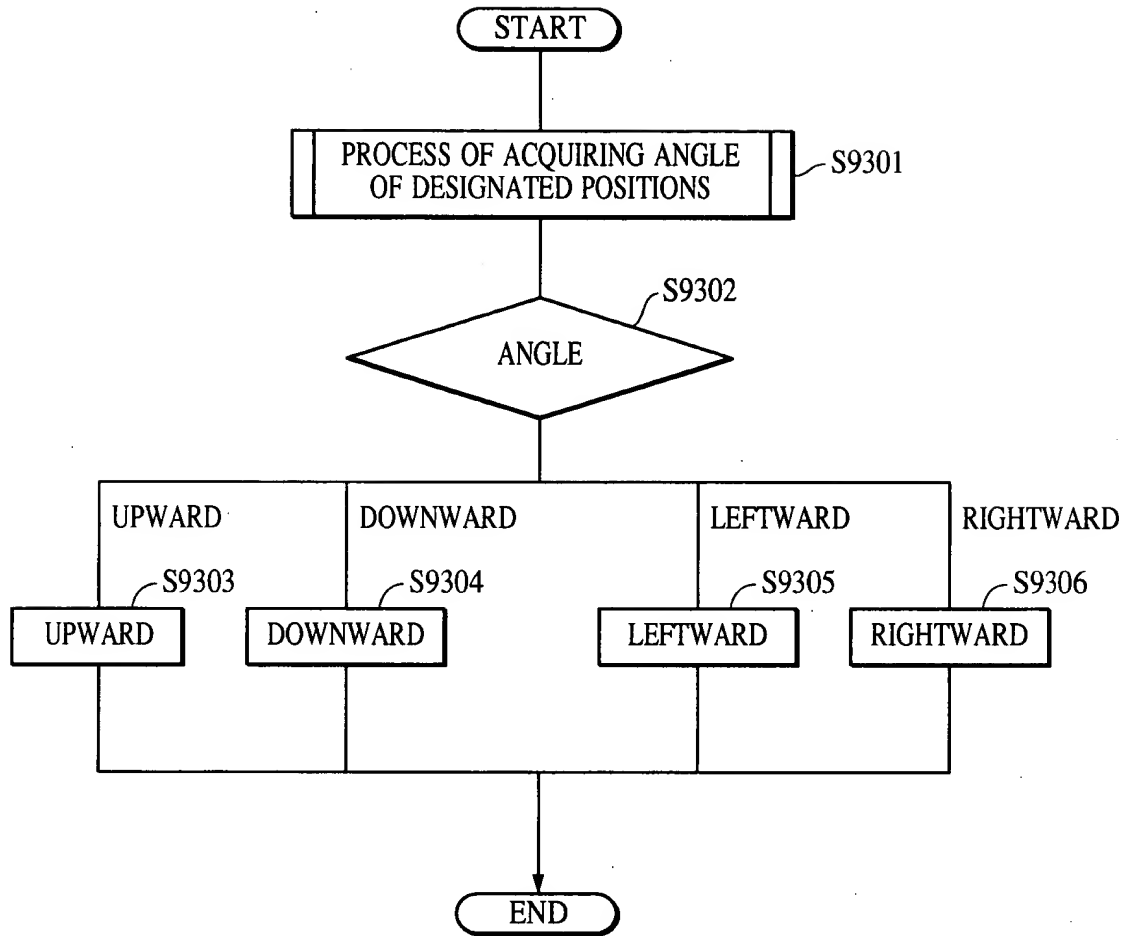


FIG. 93

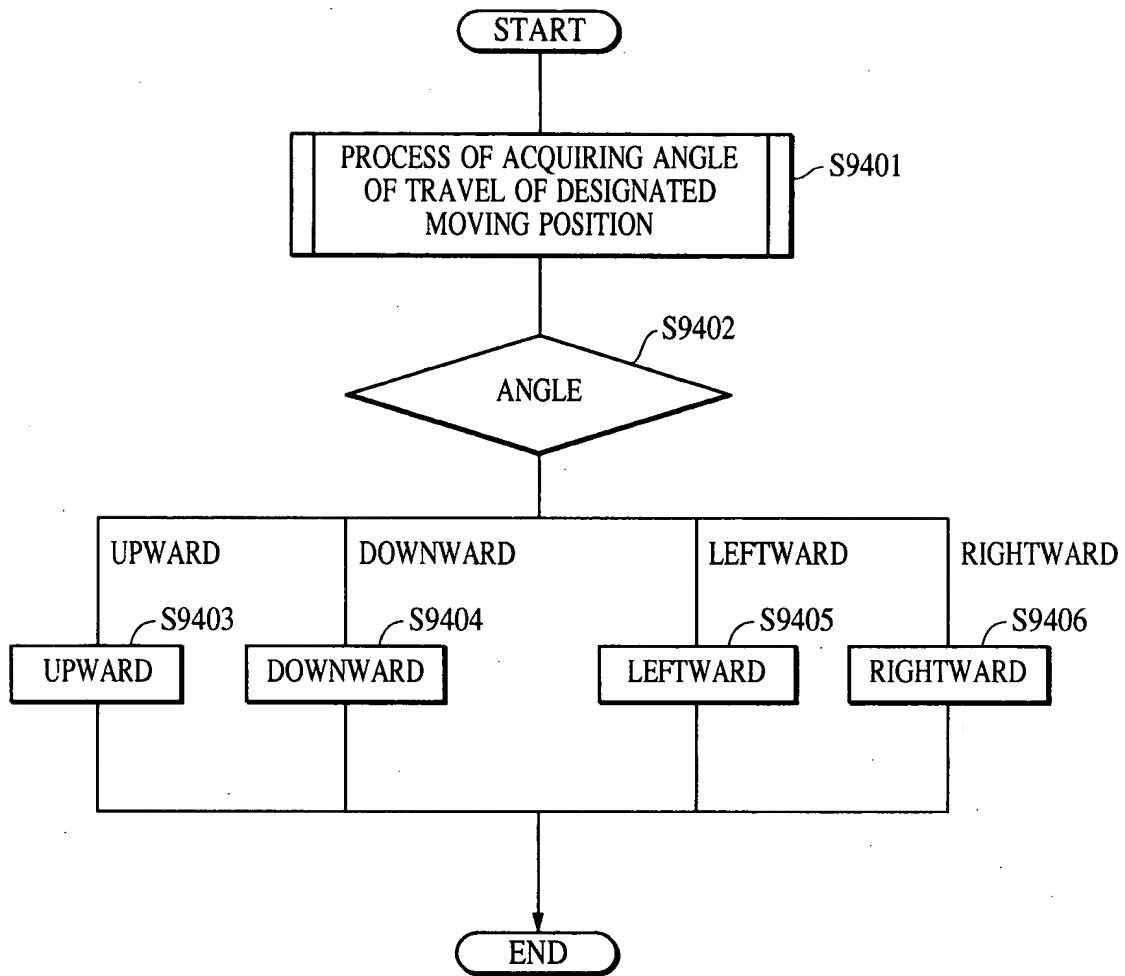
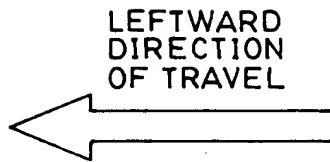


FIG. 94

FIG. 95A



MOVING POSITION ON LEFT
OF FIXED POSITION

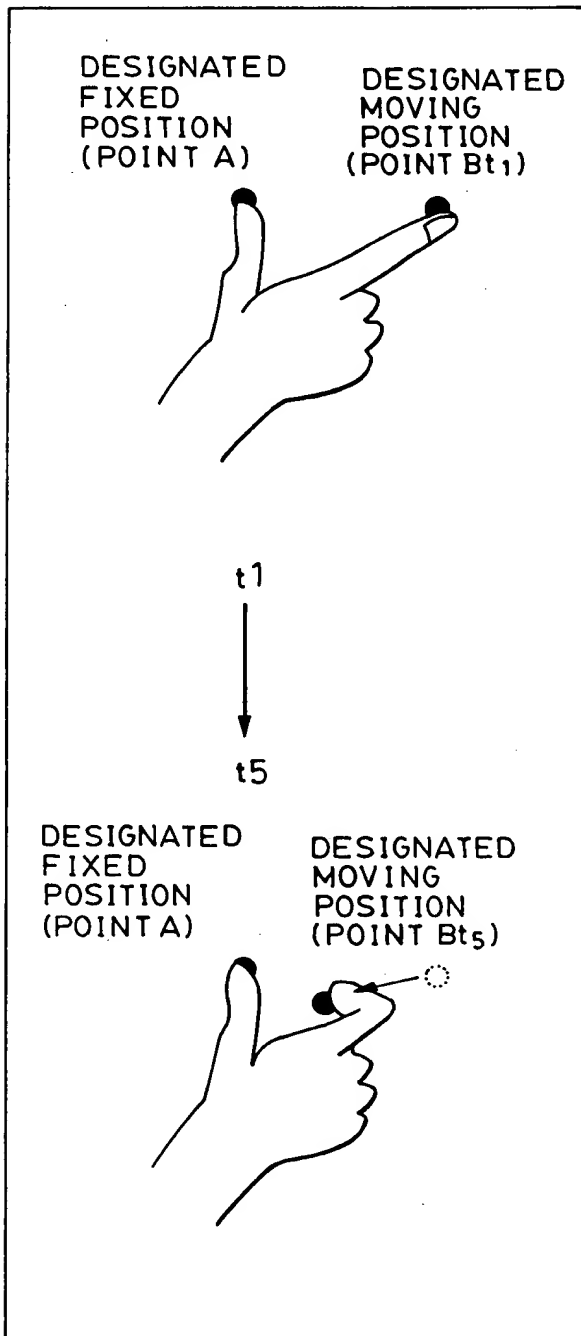


FIG. 95A

MOVING POSITION ON RIGHT
OF FIXED POSITION

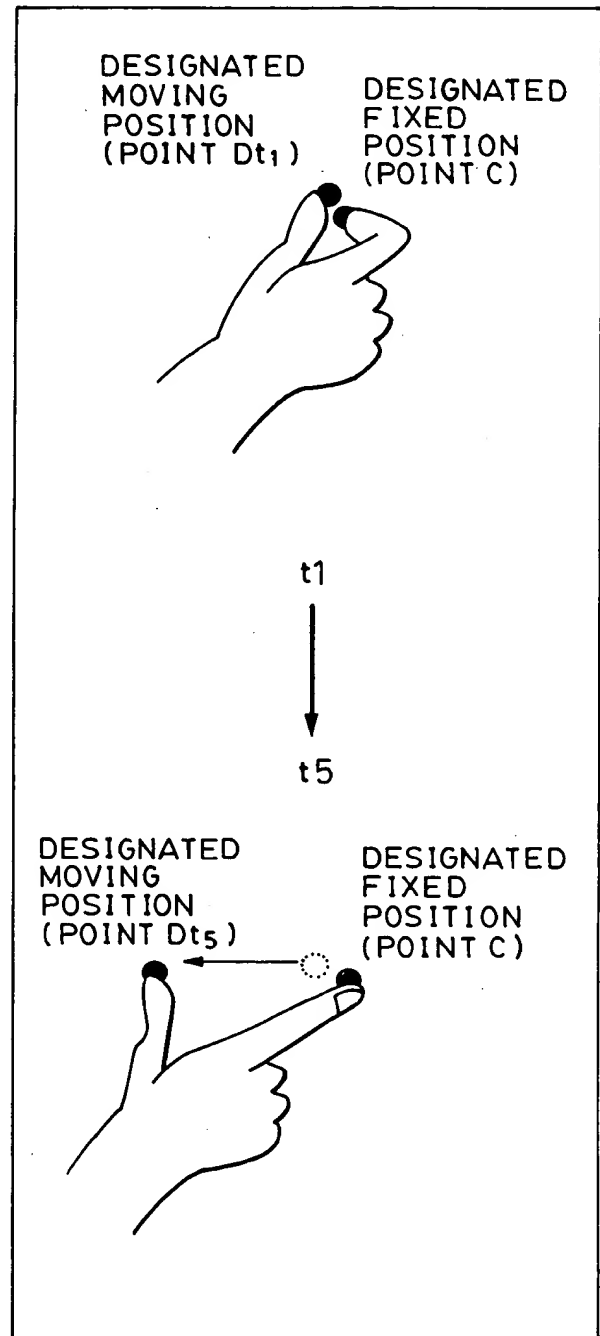


FIG. 95B

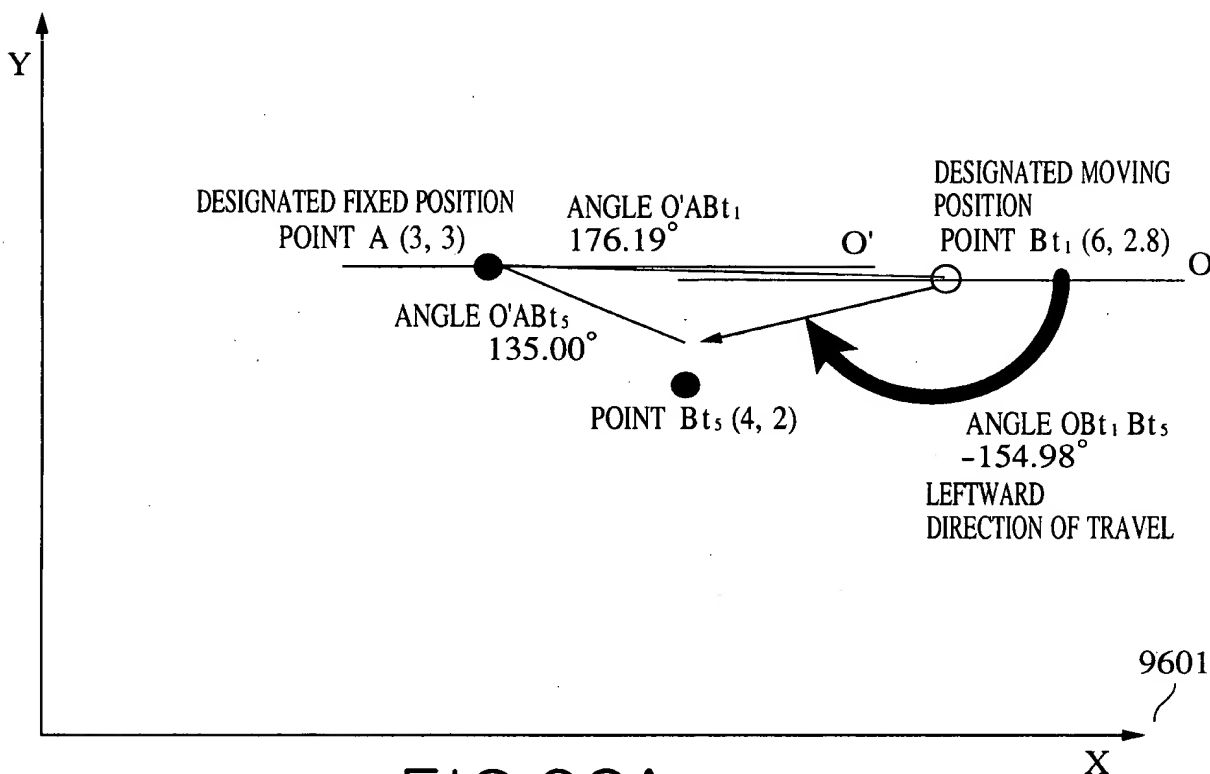


FIG. 96A

DESIGNATED FIXED POSITION
POSITION DATA OF POINT A

	A _x	A _y
t ₁	3	3
t ₂	3	3
t ₃	3	3
t ₄	3	3
t ₅	3	3

FIG. 96B

DESIGNATED MOVING POSITION
POSITION DATA OF POINT B

	B _x	B _y
t ₁	6.0	3.0
t ₂	5.3	2.3
t ₃	4.7	1.7
t ₄	4.3	1.2
t ₅	4.0	2.0

FIG. 96C

DATA OF TRAVEL OF DESIGNATED MOVING POSITION

	TRAVEL OF POINT A	TRAVEL OF POINT B	ANGLE OF DESIGNATED POSITIONS	DIRECTION OF TRAVEL
t ₁	0.000	0.000	176.19	-158.20
t ₂	0.000	0.000	163.30	-154.98
t ₃	0.000	1.729	142.05	-154.98
t ₄	0.000	2.310	126.53	-154.98
t ₅	0.000	2.154	135.00	-154.98

FIG. 96D

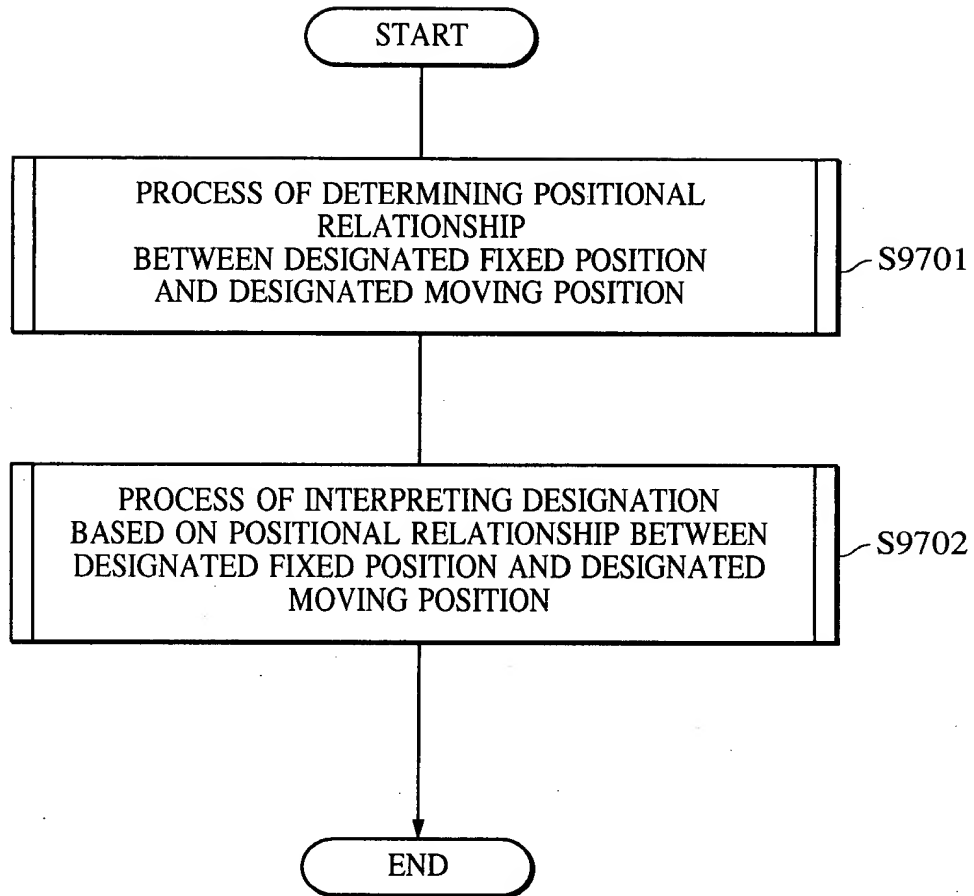


FIG. 97

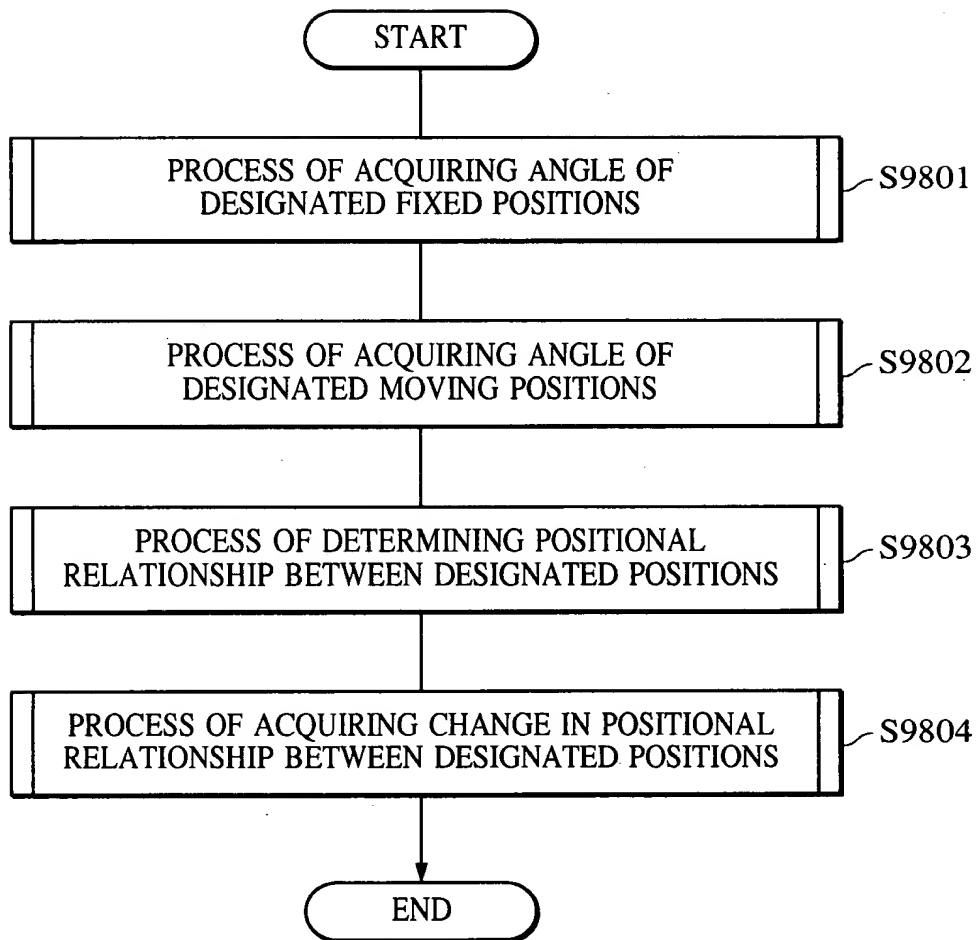


FIG. 98

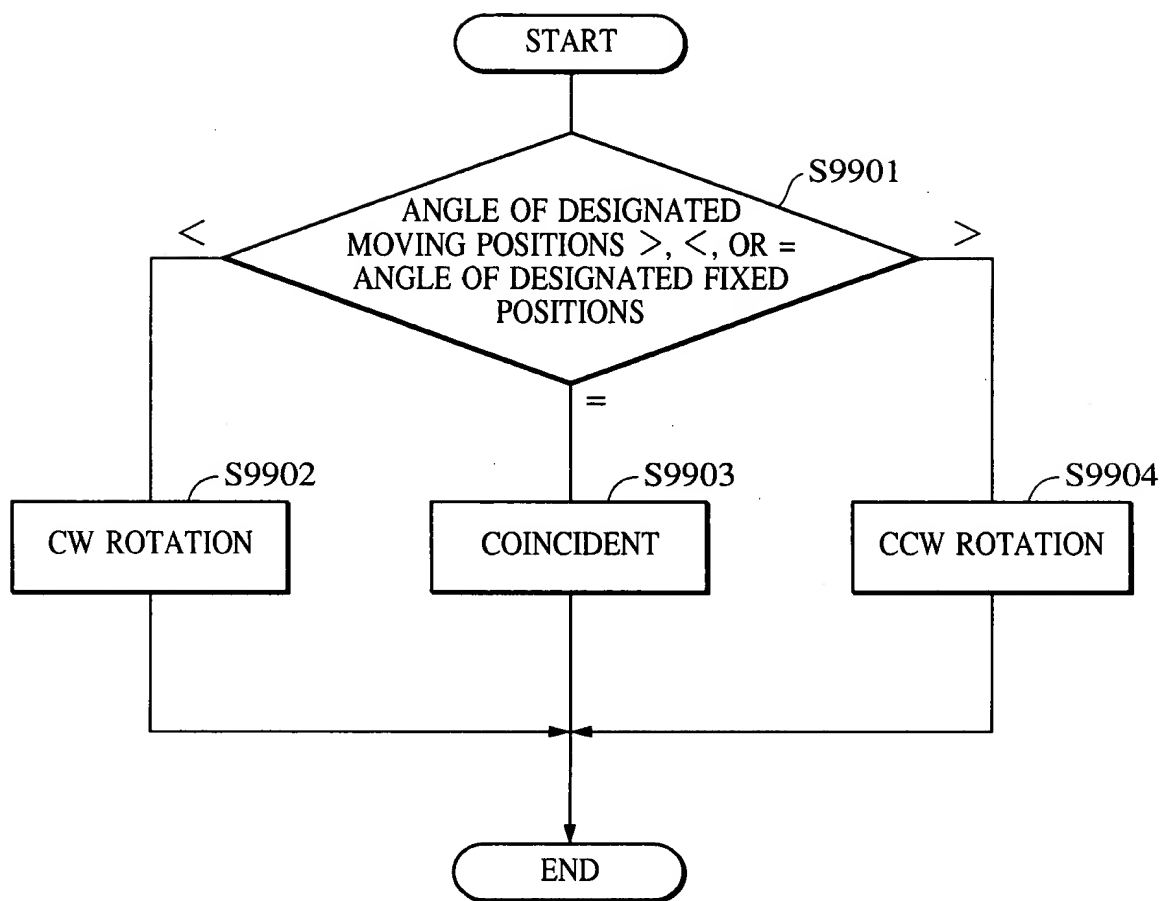


FIG. 99

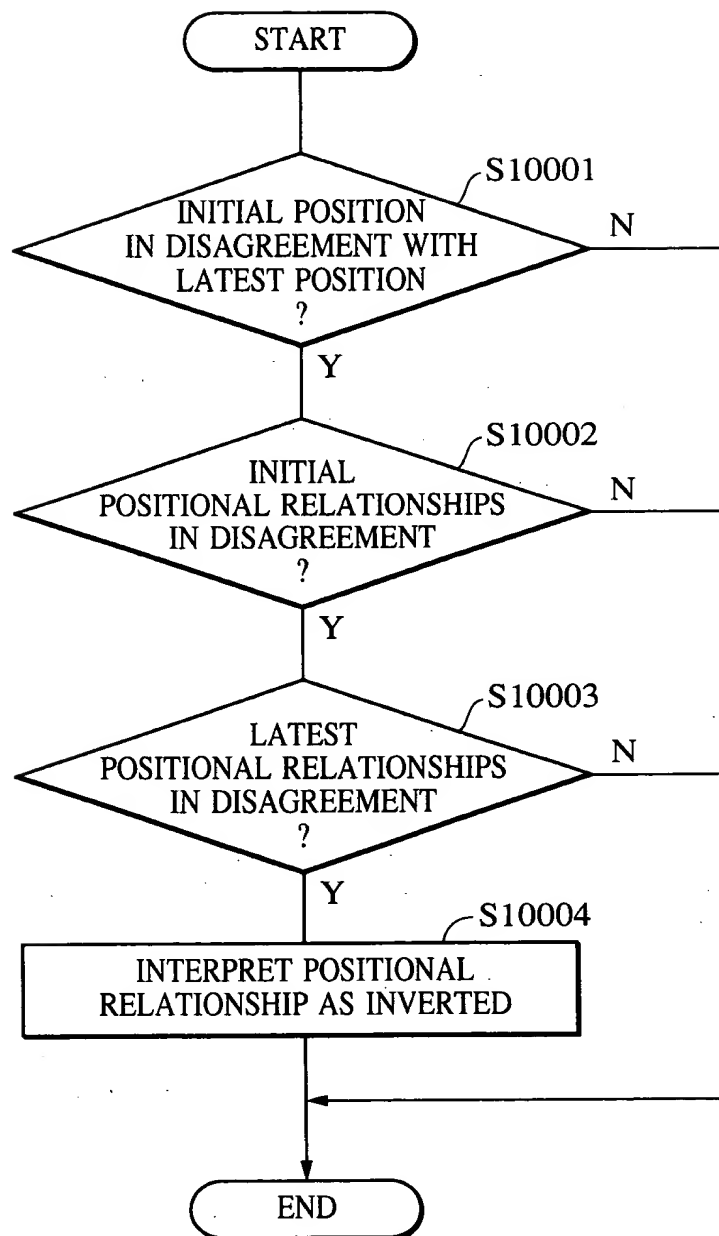


FIG. 100

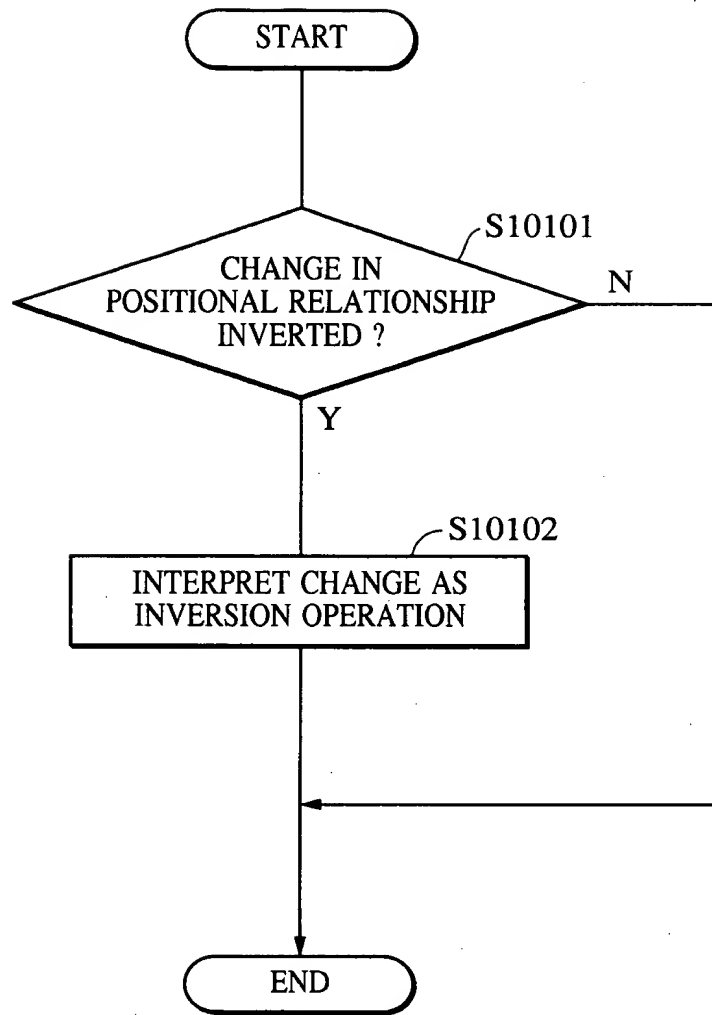


FIG. 101

SYMMETRICAL INVERSION

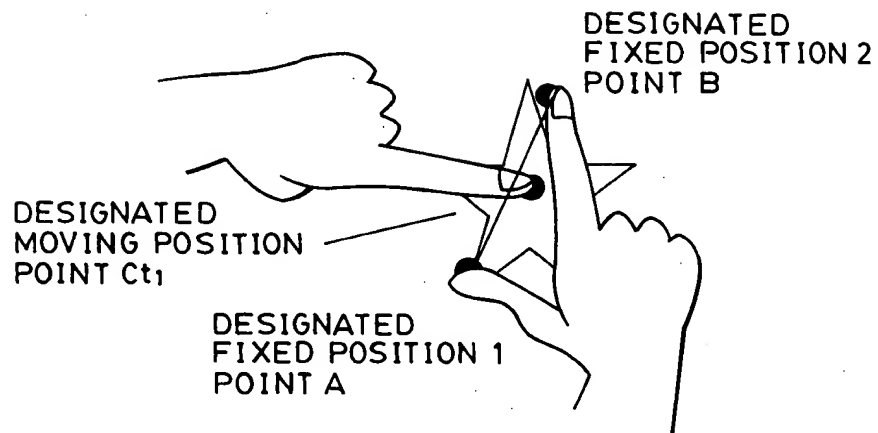


FIG. 102A

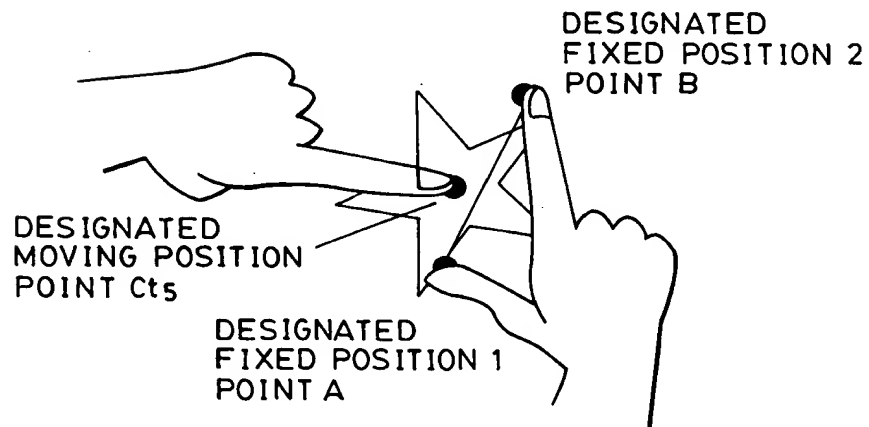


FIG. 102B

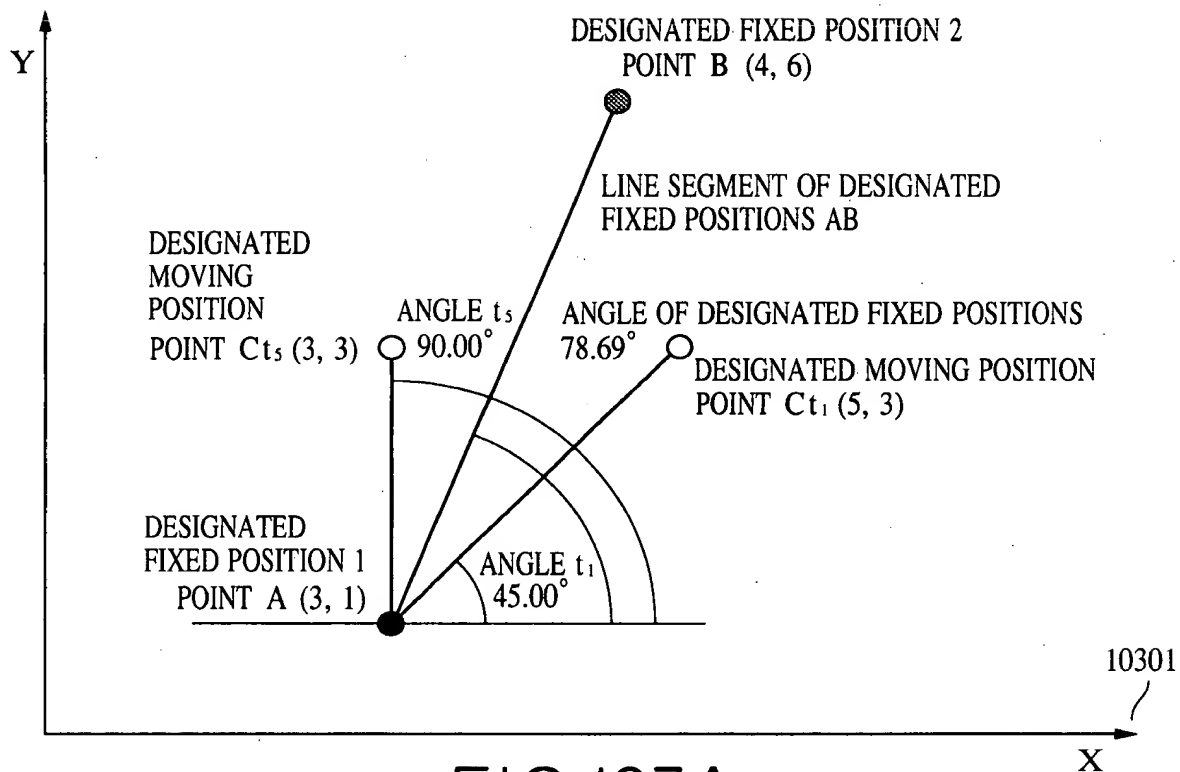


FIG. 103A

DESIGNATED FIXED POSITION
POSITION DATA OF POINT A

	A _x	A _y
t ₁	3.0	1.0
t ₂	3.0	1.0
t ₃	3.0	1.0
t ₄	3.0	1.0
t ₅	3.0	1.0

DESIGNATED FIXED POSITION
POSITION DATA OF POINT B

	B _x	B _y
t ₁	4.0	6.0
t ₂	4.0	6.0
t ₃	4.0	6.0
t ₄	4.0	6.0
t ₅	4.0	6.0

DESIGNATED MOVING POSITION
POSITION DATA OF POINT C

	C _x	C _y
t ₁	5.0	3.0
t ₂	4.5	3.0
t ₃	4.0	3.0
t ₄	3.5	3.0
t ₅	3.0	3.0

10302

FIG. 103B

FIG. 103C

FIG. 103D

POSITIONAL RELATIONSHIP DATA OF TWO DESIGNATED
FIXED POSITIONS AND DESIGNATED MOVING POSITION

	ANGLE OF FIXED POSITIONS	ANGLE OF MOVING POSITIONS
t ₁	78.69	45.00
t ₂	78.69	53.13
t ₃	78.69	63.43
t ₄	78.69	75.96
t ₅	78.69	90.00

10303

FIG. 103E

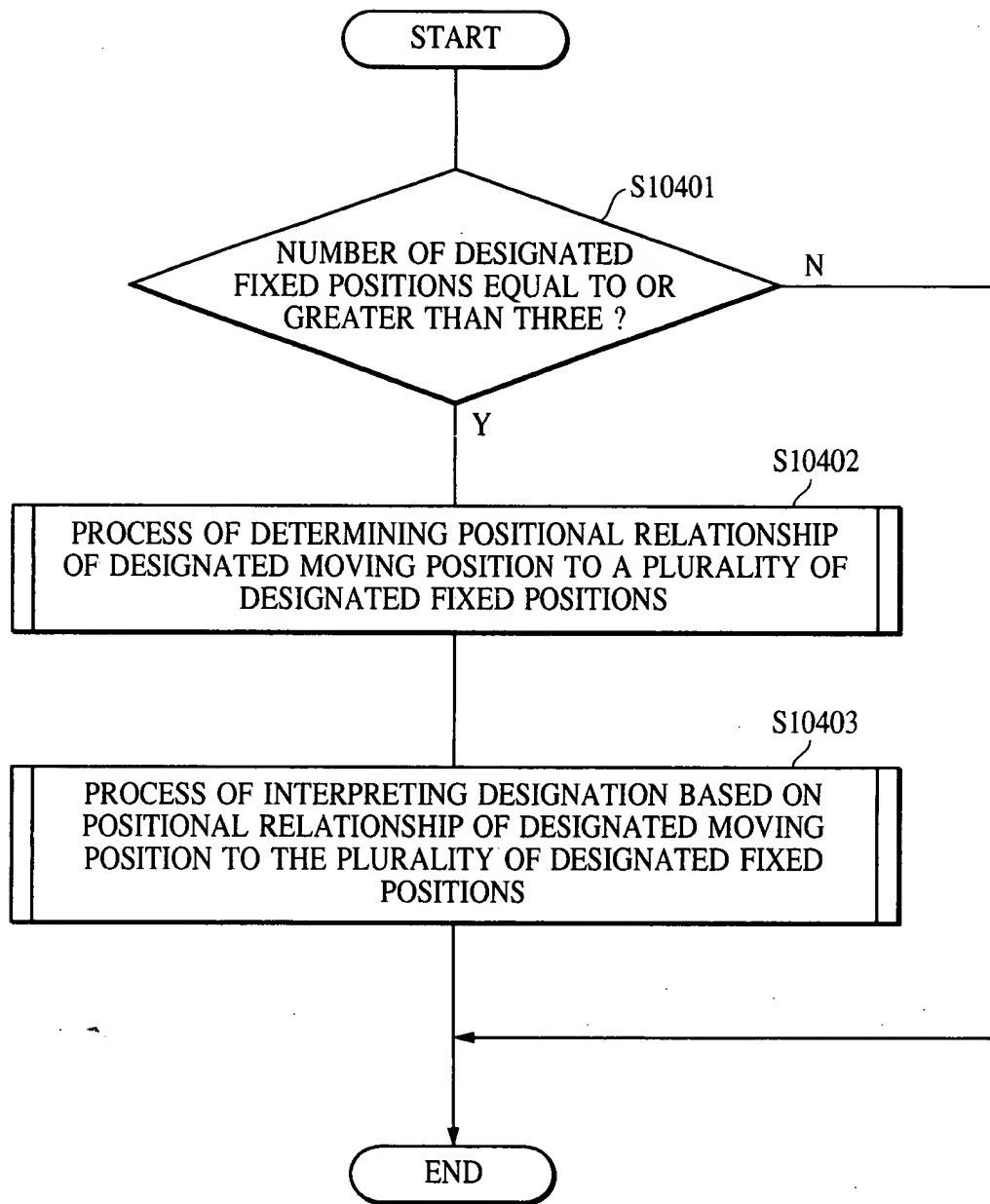


FIG. 104

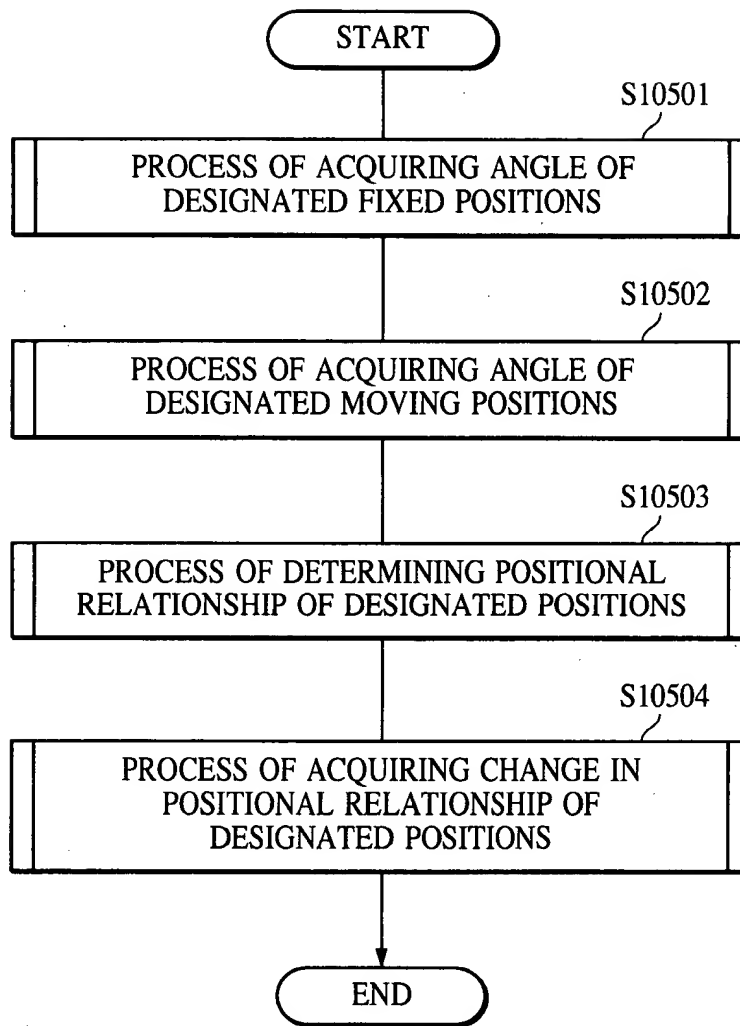


FIG. 105

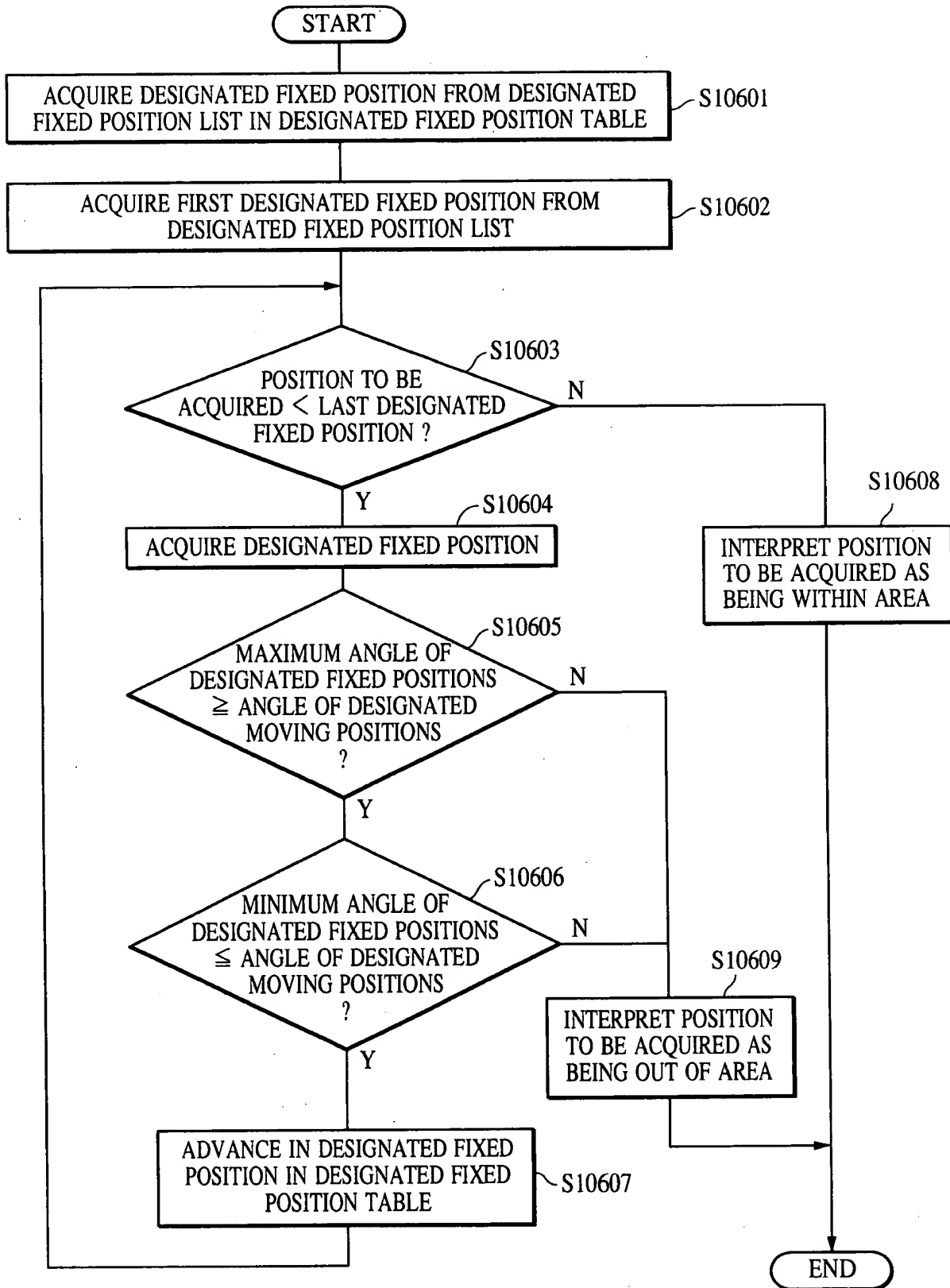


FIG. 106

WITHIN AREA

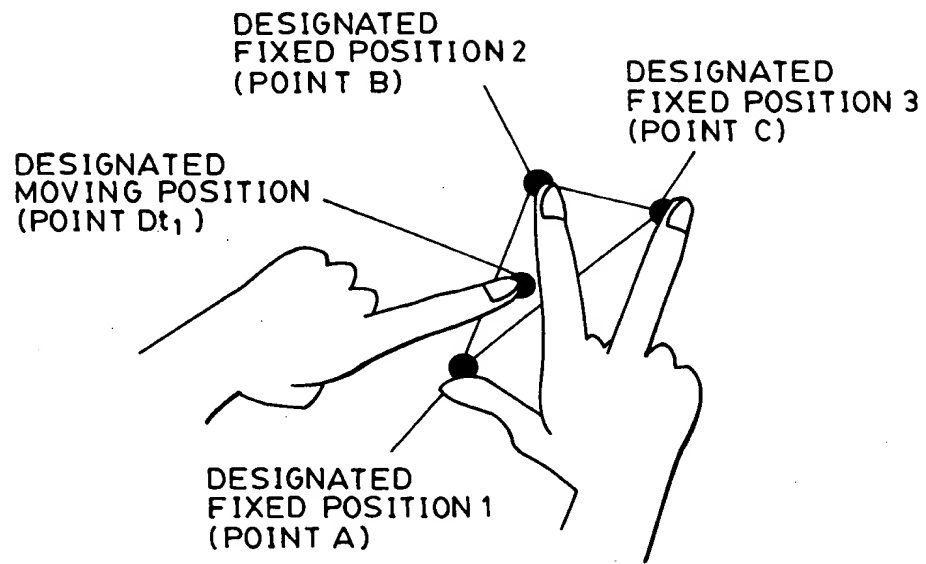


FIG. 107

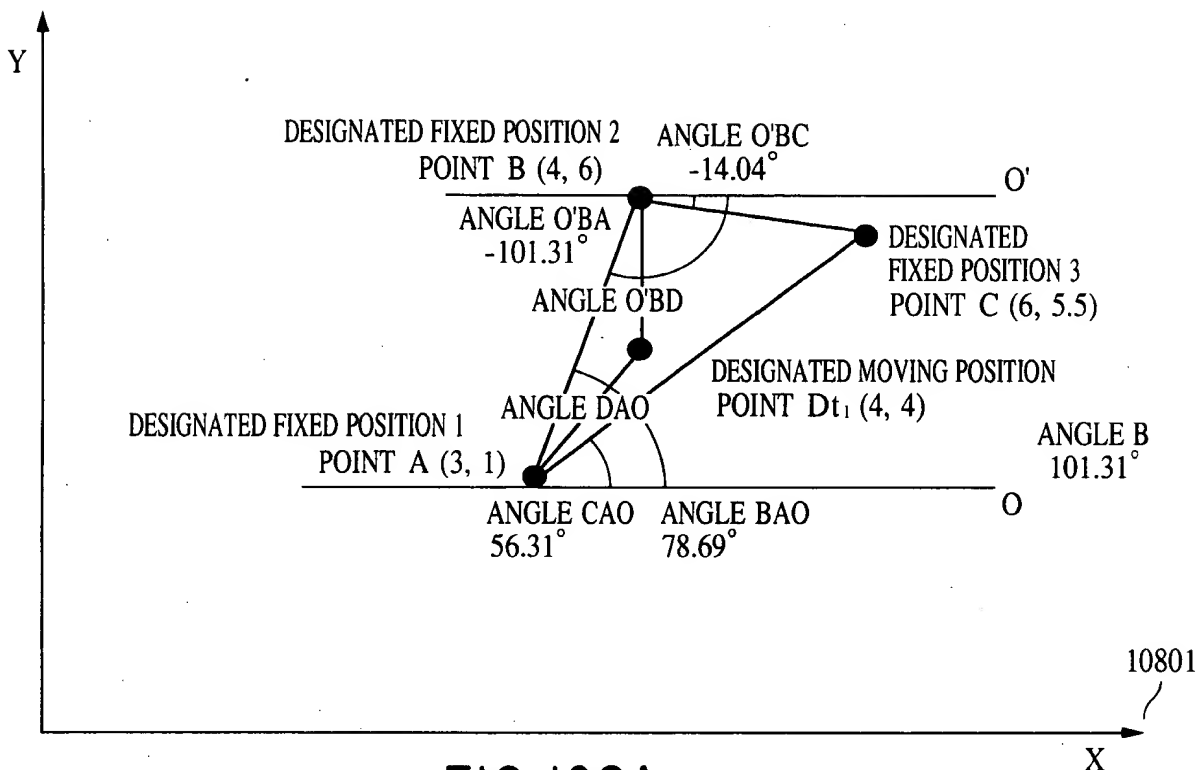


FIG. 108A

DESIGNATED FIXED
POSITION
POSITION DATA OF
POINT A

	A_x	A_y
t_1	3.0	1.0

FIG. 108B

DESIGNATED FIXED
POSITION
POSITION DATA OF
POINT B

	B_x	B_y
t_1	4.0	6.0

FIG. 108C

DESIGNATED FIXED
POSITION
POSITION DATA OF
POINT C

	C_x	C_y
t_1	6.0	5.5

FIG. 108D

DESIGNATED
MOVING POSITION
POSITION DATA OF
POINT D

	D_x	D_y
t_1	4.0	4.0

FIG. 108E

DATA OF CHANGE IN POSITIONAL RELATIONSHIP OF
DESIGNATED FIXED POSITIONS

	ANGLE BAO	ANGLE CAO	ANGLE DAO	ANGLE O'BA	ANGLE O'BC	ANGLE O'BD
t_1	78.69	56.31	71.57	-101.31	-14.04	-90.00

FIG. 108F

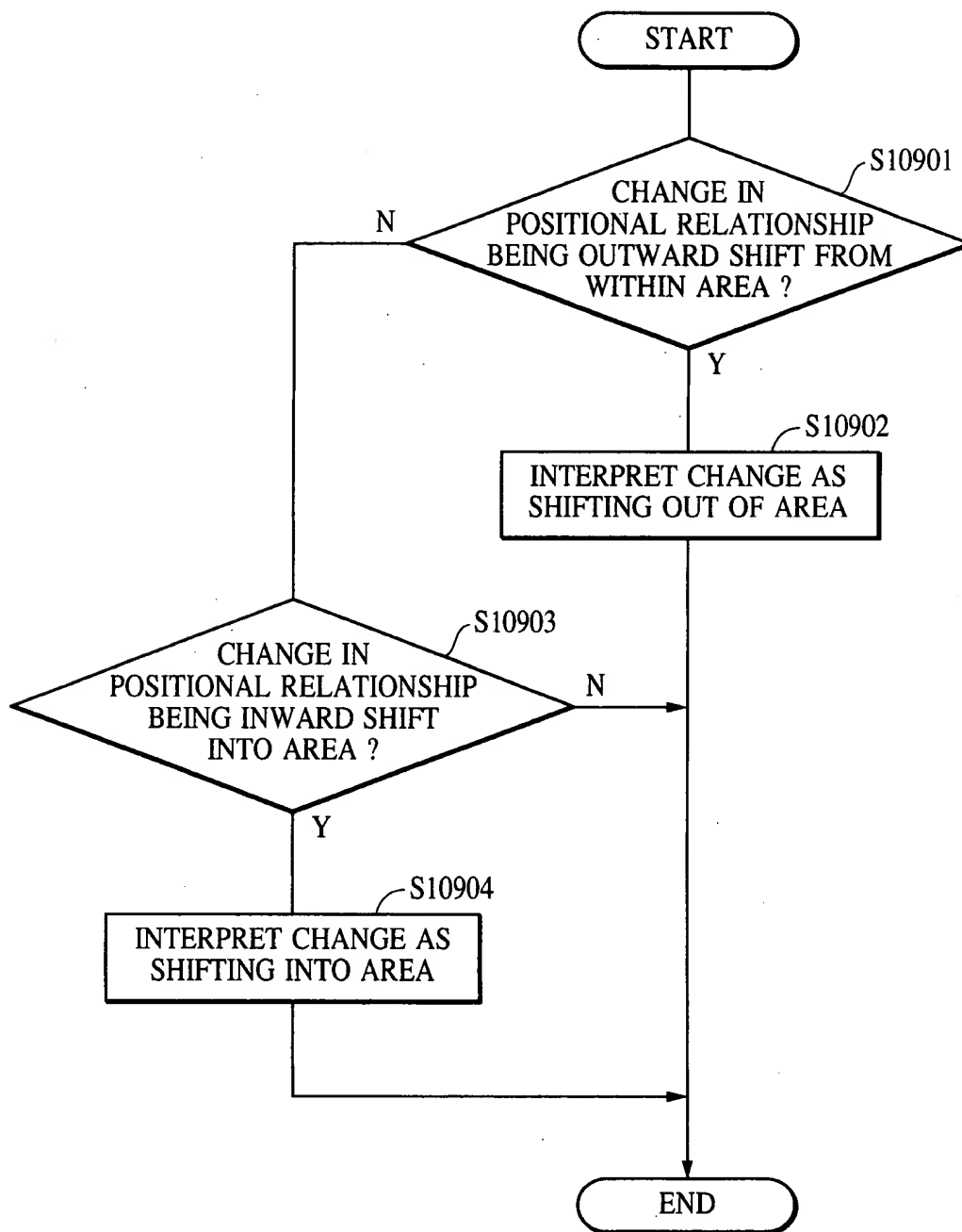


FIG. 109

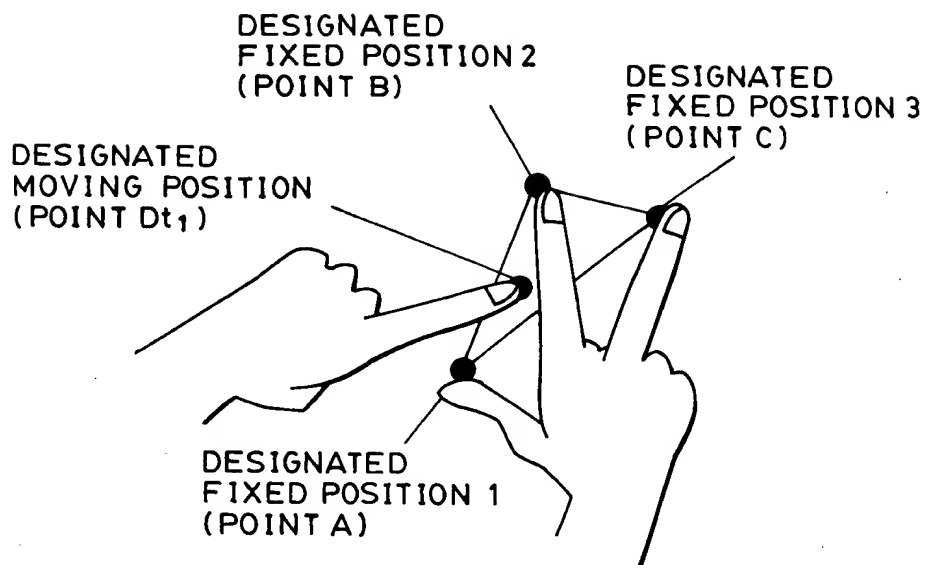


FIG. 110A

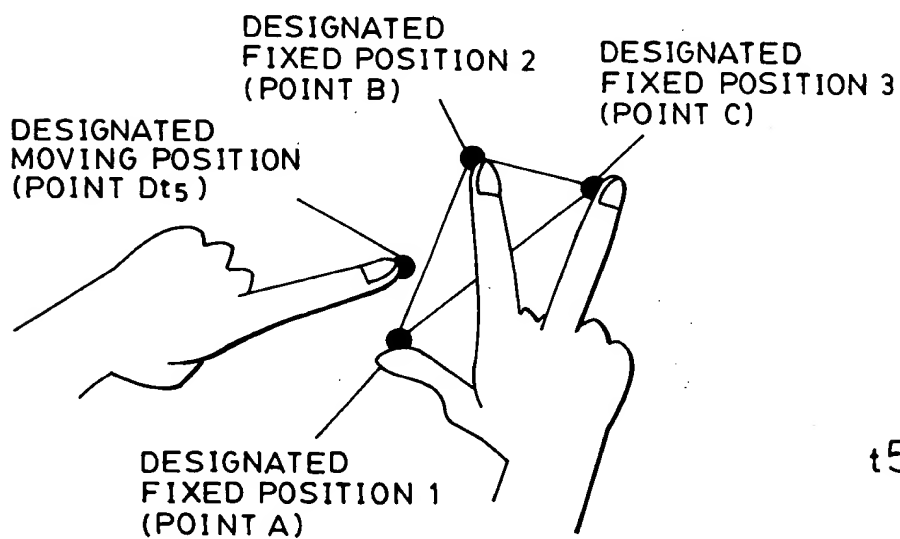


FIG. 110B

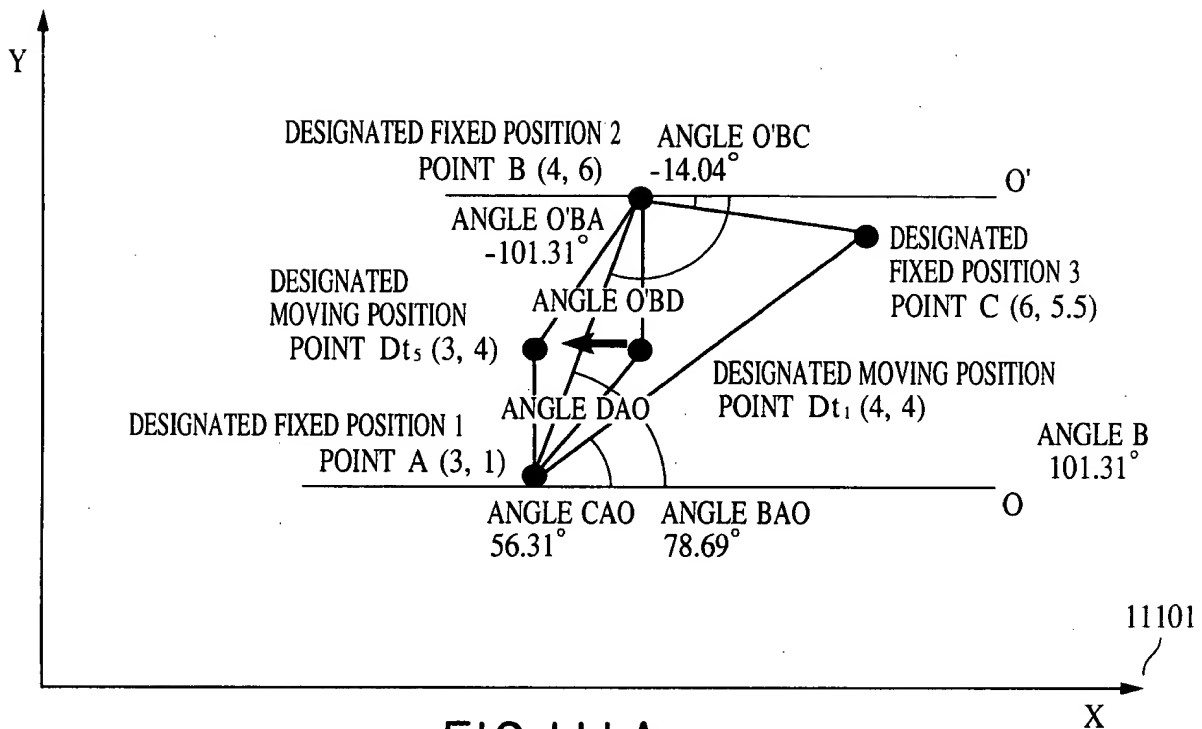


FIG. 111A

DESIGNATED FIXED
POSITION
POSITION DATA OF
POINT A

	A _x	A _y
t ₁	3.0	1.0
t ₂	3.0	1.0
t ₃	3.0	1.0
t ₄	3.0	1.0
t ₅	3.0	1.0

FIG. 111B

DESIGNATED FIXED
POSITION
POSITION DATA OF
POINT B

	B _x	B _y
t ₁	4.0	6.0
t ₂	4.0	6.0
t ₃	4.0	6.0
t ₄	4.0	6.0
t ₅	4.0	6.0

FIG. 111C

DESIGNATED FIXED
POSITION
POSITION DATA OF
POINT C

	C _x	C _y
t ₁	6.0	5.5
t ₂	6.0	5.5
t ₃	6.0	5.5
t ₄	6.0	5.5
t ₅	6.0	5.5

FIG. 111D

DESIGNATED
MOVING POSITION
POSITION DATA OF
POINT D

	D _x	D _y
t ₁	4.0	4.0
t ₂	3.8	4.0
t ₃	3.6	4.0
t ₄	3.3	4.0
t ₅	3.0	4.0

FIG. 111E

DATA OF CHANGE IN POSITIONAL RELATIONSHIP OF
DESIGNATED FIXED POSITIONS

	ANGLE BAO	ANGLE CAO	ANGLE DAO	ANGLE O'BA	ANGLE O'BC	ANGLE O'BD
t ₁	78.69	56.31	71.57	-101.31	-14.04	-90.00
t ₂	78.69	56.31	57.07	-101.31	-14.04	-95.71
t ₃	78.69	56.31	78.69	-101.31	-14.04	-101.31
t ₄	78.69	56.31	84.29	-101.31	-14.04	-109.29
t ₅	78.69	56.31	90.00	-101.31	-14.04	-116.57

FIG. 111F

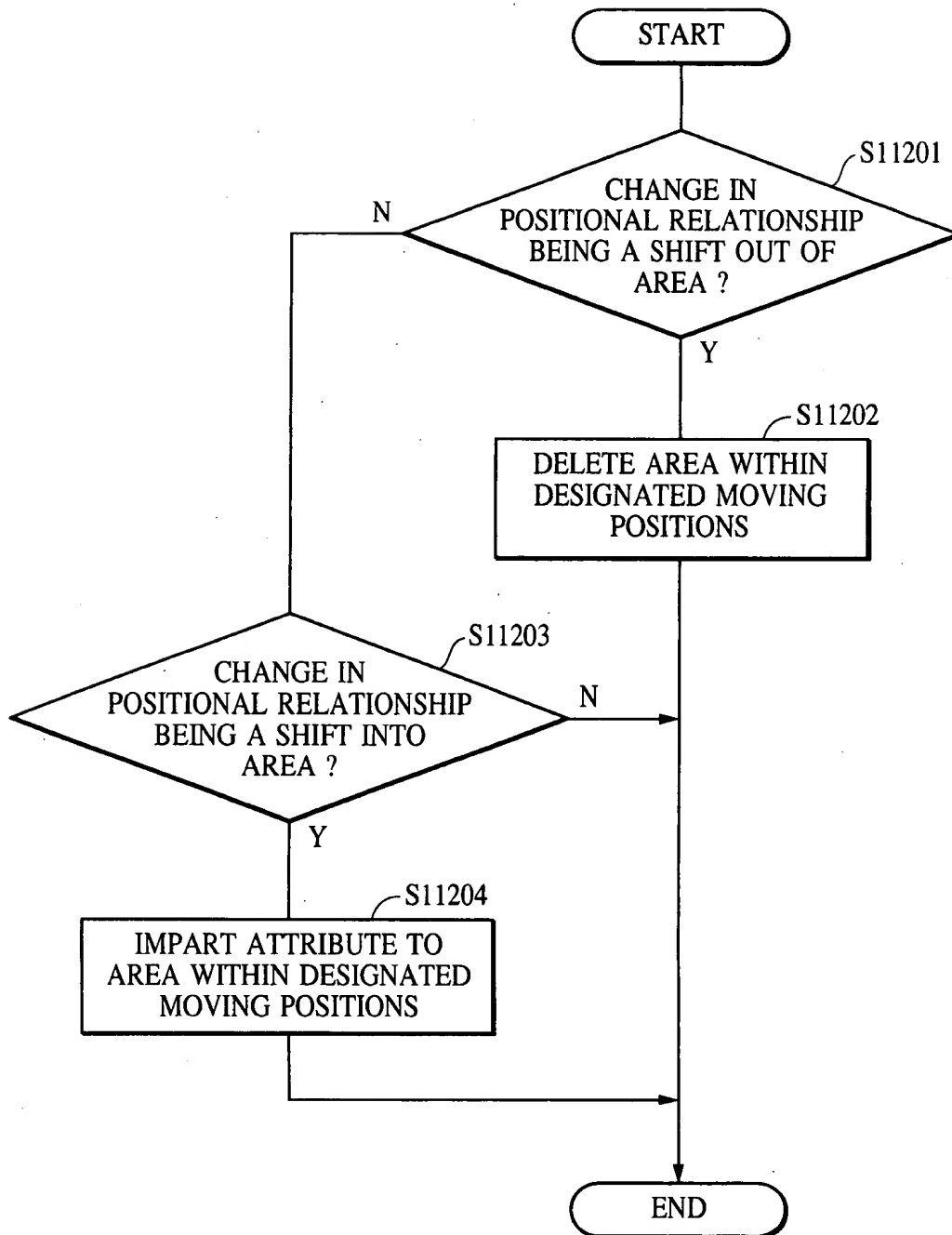


FIG. 112

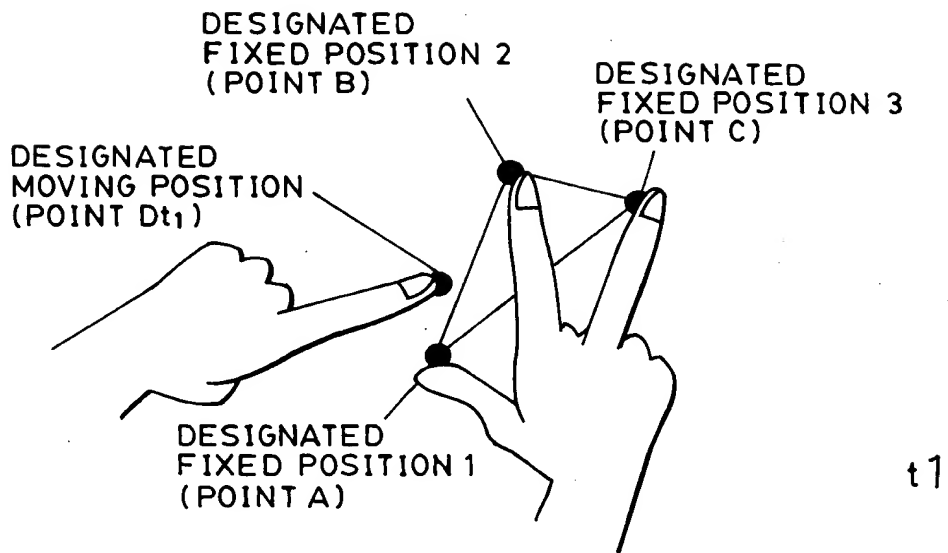


FIG. 113A

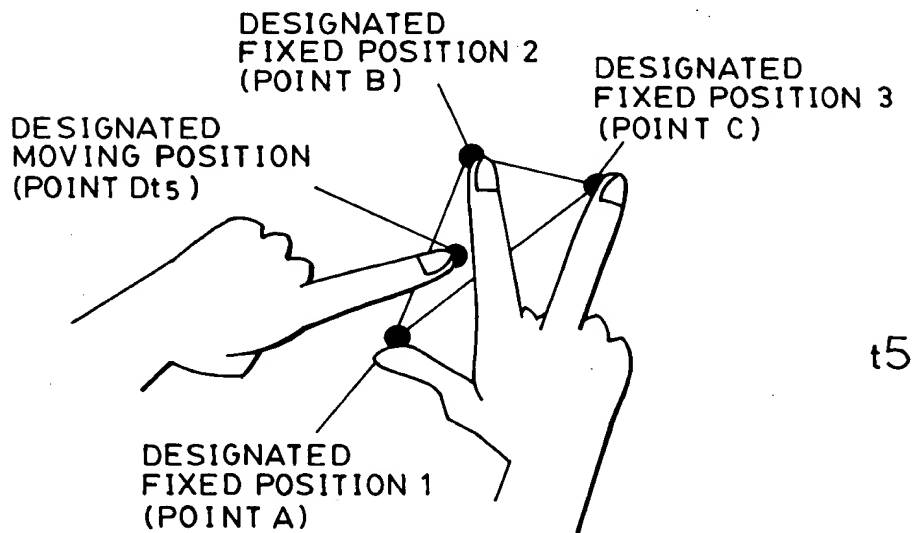


FIG. 113B

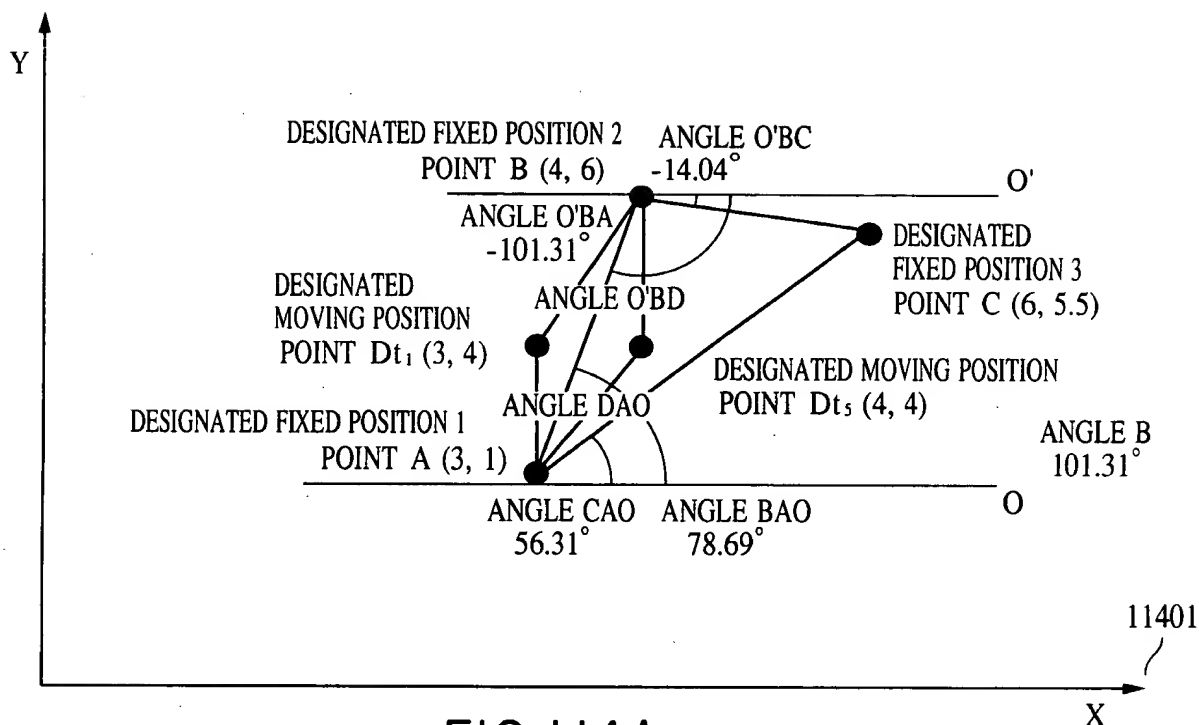


FIG. 114A

DESIGNATED FIXED POSITION DATA OF POINT A

	A _x	A _y
t ₁	3.0	1.0
t ₂	3.0	1.0
t ₃	3.0	1.0
t ₄	3.0	1.0
t ₅	3.0	1.0

DESIGNATED FIXED POSITION DATA OF POINT B

	B _x	B _y
t ₁	4.0	6.0
t ₂	4.0	6.0
t ₃	4.0	6.0
t ₄	4.0	6.0
t ₅	4.0	6.0

DESIGNATED FIXED POSITION DATA OF POINT C

	C _x	C _y
t ₁	6.0	5.5
t ₂	6.0	5.5
t ₃	6.0	5.5
t ₄	6.0	5.5
t ₅	6.0	5.5

DESIGNATED MOVING POSITION DATA OF POINT D

	D _x	D _y
t ₁	3.0	4.0
t ₂	3.3	4.0
t ₃	3.6	4.0
t ₄	3.8	4.0
t ₅	4.0	4.0

FIG. 114B

FIG. 114C

FIG. 114D

FIG. 114E

DATA OF CHANGE IN POSITIONAL RELATIONSHIP

	ANGLE BAO	ANGLE CAO	ANGLE DAO	ANGLE O'BA	ANGLE O'BC	ANGLE O'BD
t ₁	78.69	56.31	90.00	-101.31	-14.04	-116.57
t ₂	78.69	56.31	84.29	-101.31	-14.04	-109.29
t ₃	78.69	56.31	78.69	-101.31	-14.04	-101.31
t ₄	78.69	56.31	75.07	-101.31	-14.04	-95.71
t ₅	78.69	56.31	71.57	-101.31	-14.04	-90.00

FIG. 114F

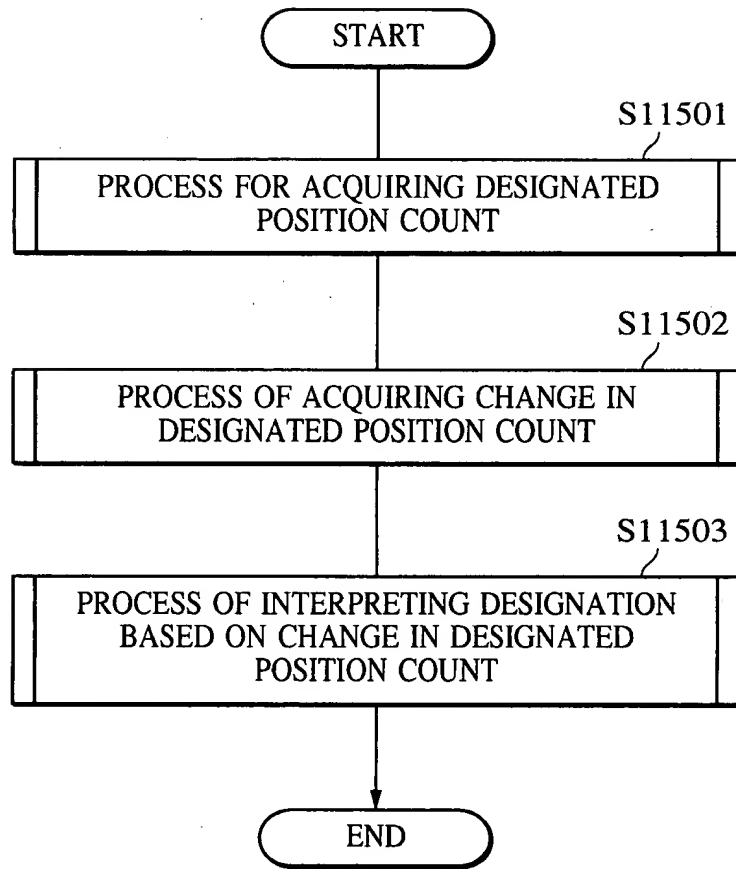


FIG. 115

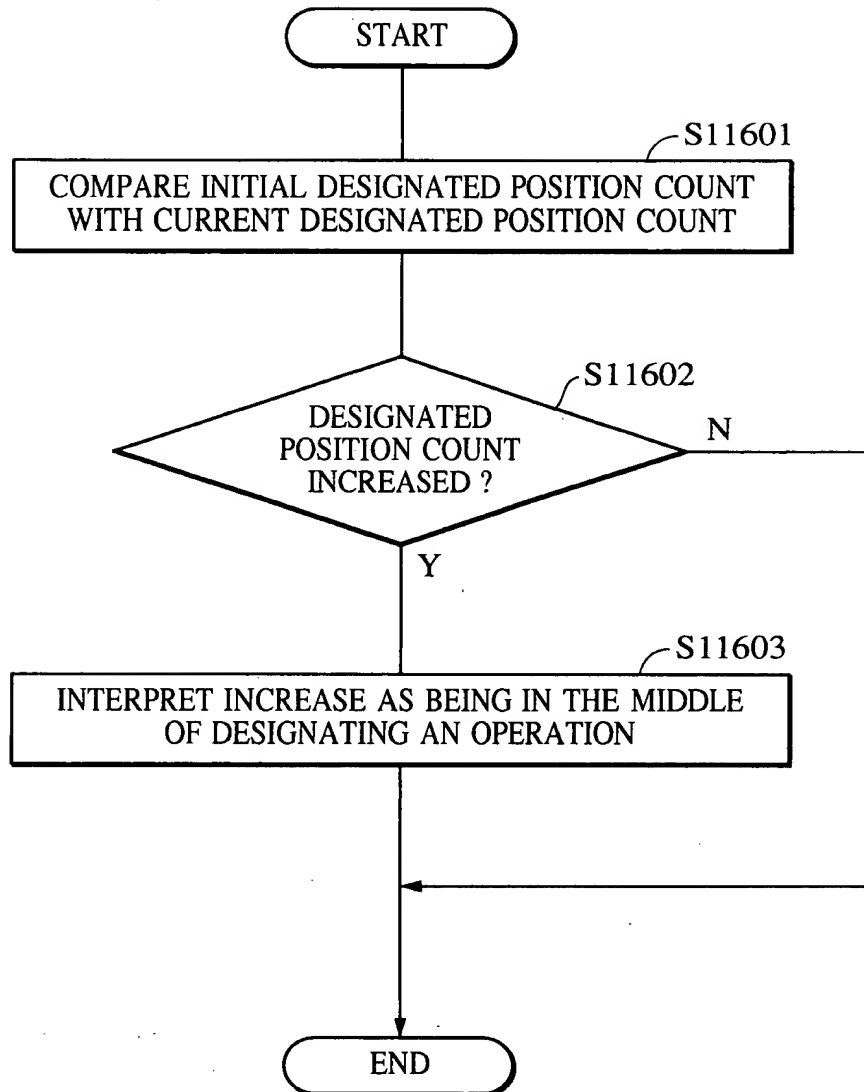


FIG. 116

007504-013904

TIME t_1

INITIAL
DESIGNATED
POSITION
POINT At_1

INITIAL
DESIGNATED
POSITION
POINT Bt_1

In a system for preparing a text by using a knowledge base, knowledge relating to input information is first retrieved from the knowledge base. Then, a plurality of kinds of information used as elements of text to be generated is selected from the input information and the retrieved information relating to the input information. Subsequently, a describing order, in which the selected elements of the text are described, is determined. Then, a text to be output is generated in accordance with the determined describing order.

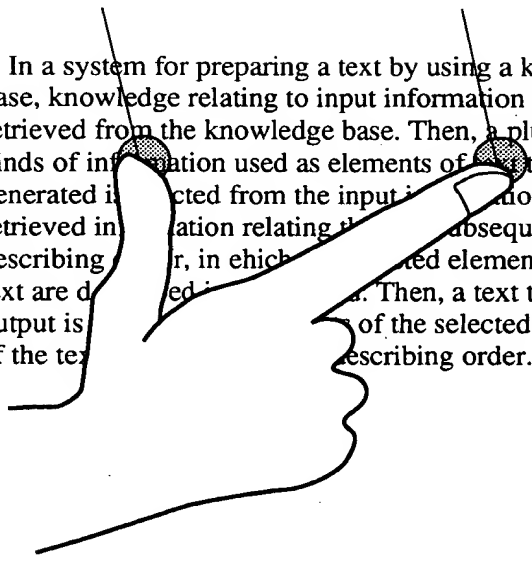


FIG. 117A

TIME t_2

DESIGNATED
POSITION
POINT At_2

DESIGNATED
POSITION
POINT Bt_2

DESIGNATED
POSITION
POINT Ct_2

In a system for preparing a text by using a knowledge base, knowledge relating to input information is first retrieved from the knowledge base. Then, a plurality of kinds of information used as elements of text to be generated is selected from the input information and the retrieved information relating to the input information. Subsequently, a describing order, in which the selected elements of the text are described, is determined. Then, a text to be output is generated in accordance with the determined describing order.

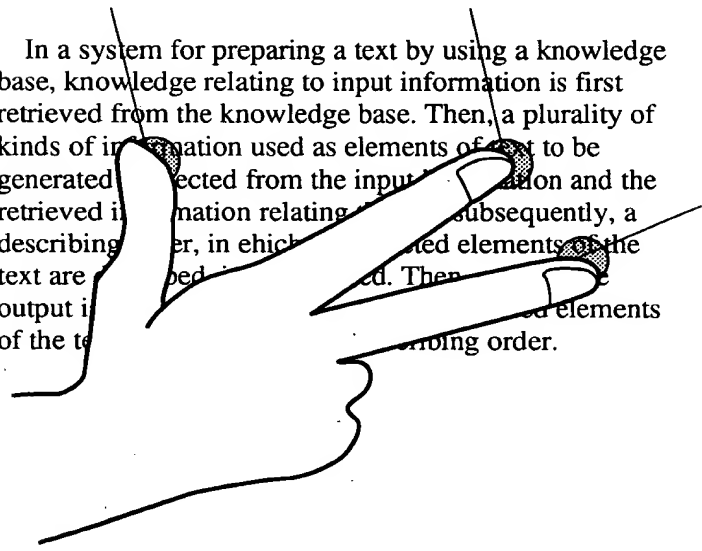


FIG. 117B

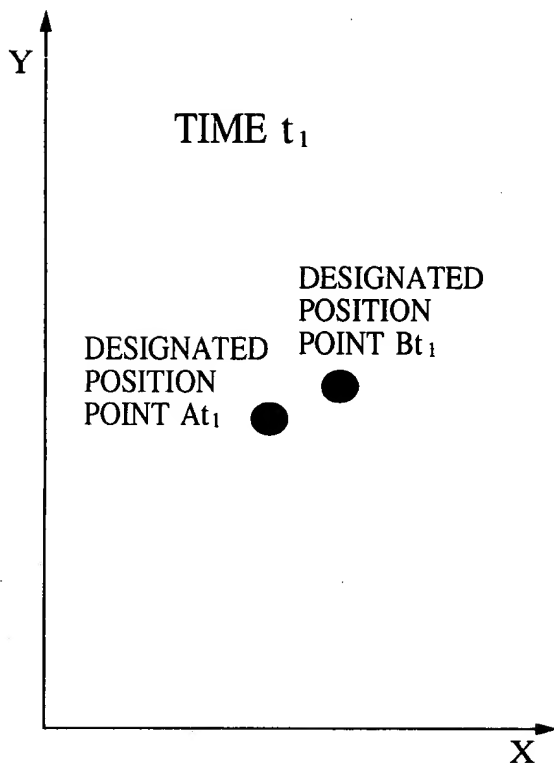


FIG. 118A

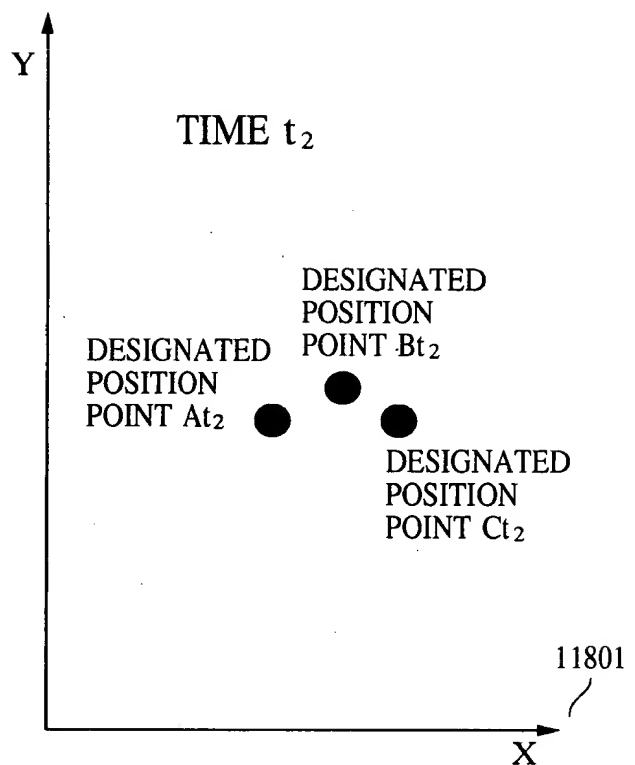


FIG. 118B

DESIGNATED
FIXED POSITION
POSITION DATA
OF POINT A

	A_x	A_y
t_1	3.0	3.0
t_2	3.0	3.0
t_3	3.0	3.0

FIG. 118C

DESIGNATED
FIXED POSITION
POSITION DATA
OF POINT B

	B_x	B_y
t_1	4.0	4.0
t_2	4.0	4.0
t_3	4.0	4.0

FIG. 118D

DESIGNATED
FIXED POSITION
POSITION DATA
OF POINT C

	C_x	C_y
t_1		
t_2	5.0	3.0
t_3	5.0	3.0

FIG. 118E

DATA OF DESIGNATED POSITION COUNT

	DESIGNATED POSITION COUNT	CHANGE IN INITIAL DESIGNATED POSITION COUNT
t_1	2	0
t_2	3	1
t_3	3	1

FIG. 118F

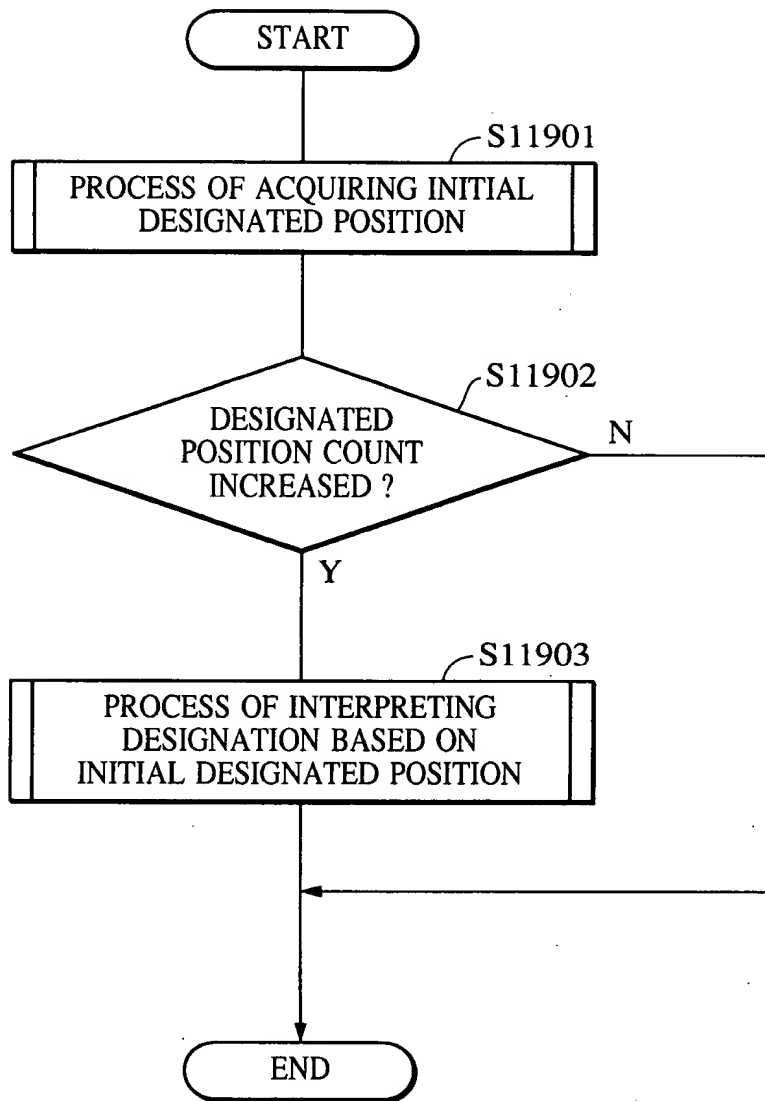


FIG. 119

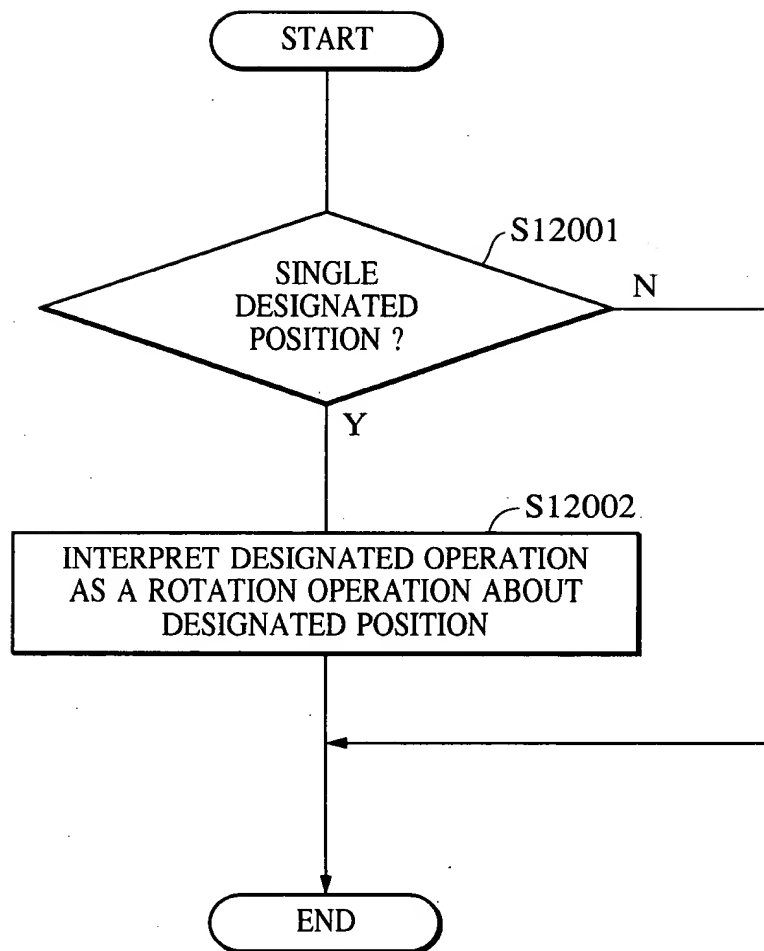


FIG. 120

TIME t_1

INITIAL
DESIGNATED
POSITION
POINT A(3,3)

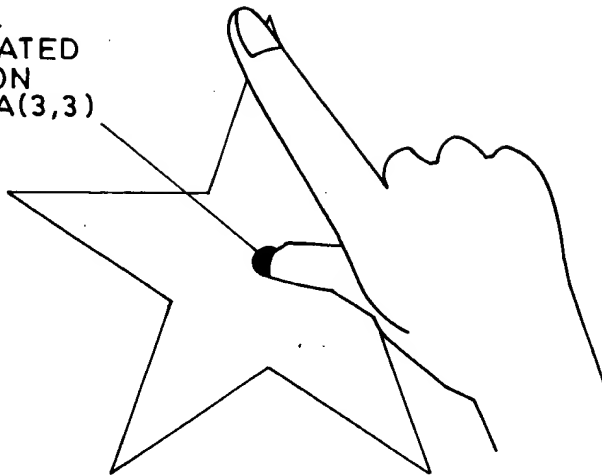


FIG. 12IA

TIME t_5

DESIGNATED
POSITION
POINT Bt3

DESIGNATED
POSITION
POINT Bt5

DESIGNATED
POSITION
POINT A(3,3)

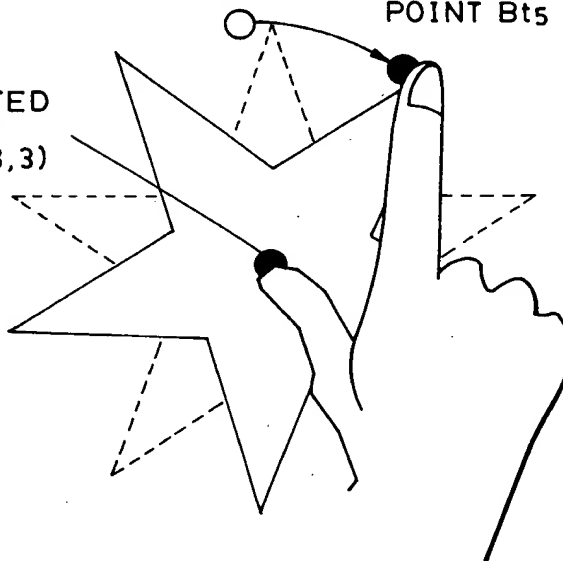


FIG. 12IB

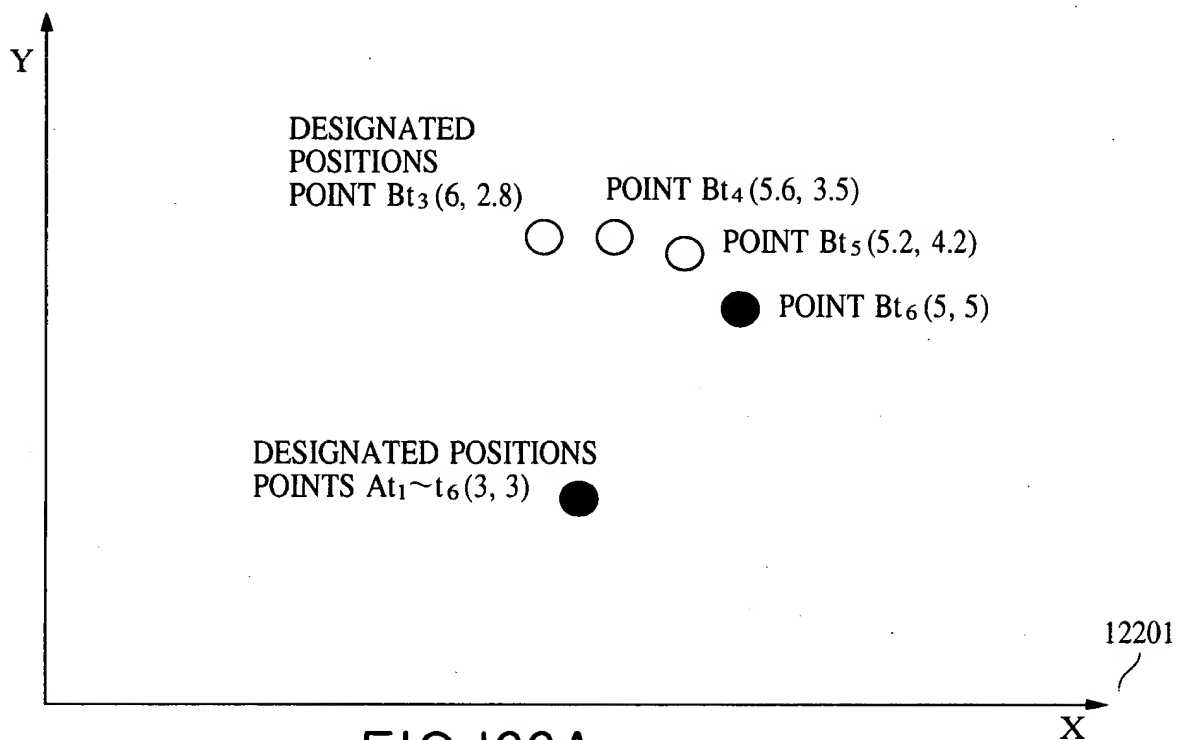


FIG. 122A

DESIGNATED POSITION
POSITION DATA OF POINT A

	A _x	A _y
t ₁	3.0	3.0
t ₂	3.0	3.0
t ₃	3.0	3.0
t ₄	3.0	3.0
t ₅	3.0	3.0
t ₆	3.0	3.0

FIG. 122B

DESIGNATED POSITION
POSITION DATA OF POINT B

	B _x	B _y
t ₁		
t ₂		
t ₃	6.0	2.8
t ₄	5.6	3.5
t ₅	5.2	4.2
t ₆	5.0	5.0

FIG. 122C

DATA OF DESIGNATED POSITION COUNT

	DESIGNATED POSITION COUNT	CHANGE IN INITIAL DESIGNATED POSITION COUNT
t ₁	1	0
t ₂	1	0
t ₃	2	1
t ₄	2	1
t ₅	2	1
t ₆	2	1

FIG. 122D

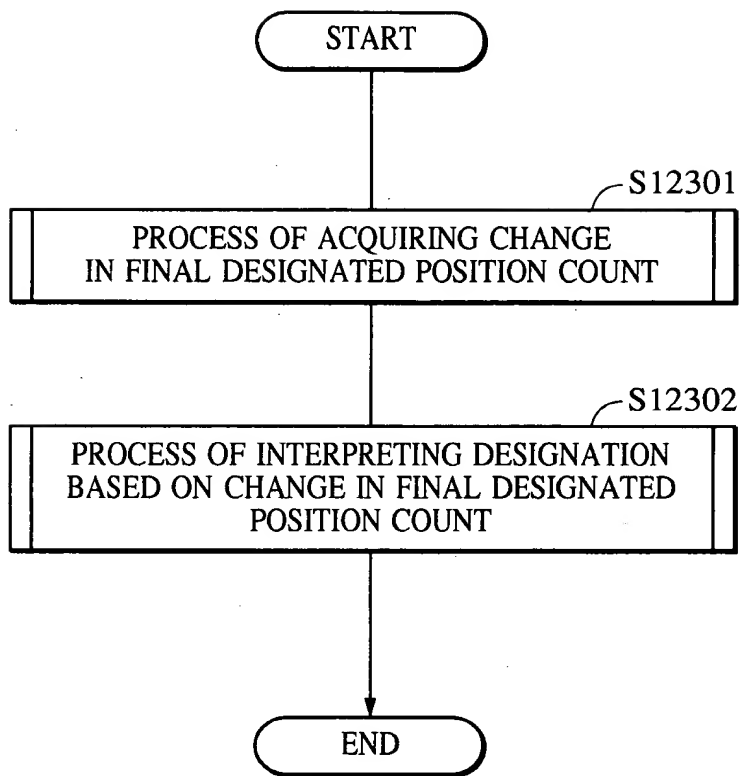


FIG. 123

```

graph TD
    START([START]) --> S12401{DESIGNATED  
POSITION COUNT  
DECREASED ?}
    S12401 -- Y --> S12402[INTERPRET DESIGNATION AS  
CANCEL TO IMMEDIATELY  
PRECEDING OPERATION]
    S12401 -- N --> S12403[INTERPRET DESIGNATION AS  
APPROVAL TO IMMEDIATELY  
PRECEDING OPERATION]
    S12402 --> END([END])
    S12403 --> END

```

FIG. 124

TIME t_1

DESIGNATED
POSITION
POINT At_1

DESIGNATED
POSITION
POINT Bt_1

In a system for preparing a text by using a knowledge base, knowledge relating to input information is first retrieved from the knowledge base. Then, a plurality of kinds of information used as elements of text to be generated is selected from the input information and the retrieved information relating to the input information. Subsequently, a describing order, in which the selected elements of the text are described, is determined. Then, a text to be output is generated in the determined describing order.

DESIGNATED
POSITION
POINT Ct_1

FIG. 125A

TIME t_2

DESIGNATED
POSITION
POINT At_2

DESIGNATED
POSITION
POINT Bt_2

In a system for preparing a text by using a knowledge base, knowledge relating to input information is first retrieved from the knowledge base. Then, a plurality of kinds of information used as elements of text to be generated is selected from the input information and the retrieved information relating to the input information. Subsequently, a describing order, in which the selected elements of the text are described, is determined. Then, a text to be output is generated in the determined describing order.

FIG. 125B

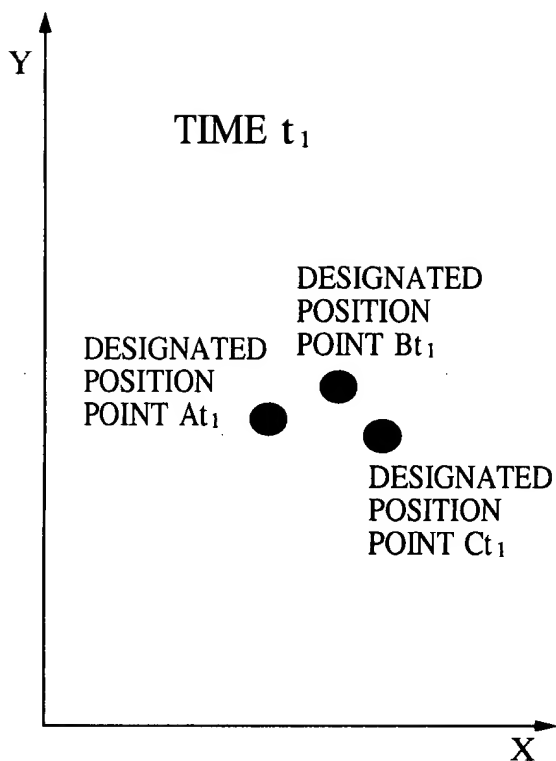


FIG. 126A

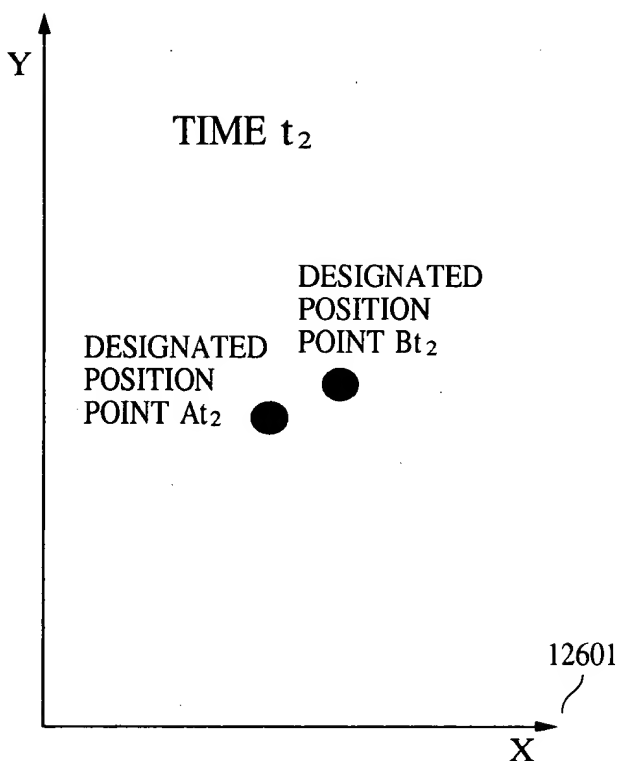


FIG. 126B

DESIGNATED POSITION
POSITION DATA OF
POINT A

	A _x	A _y
t ₁	3.0	3.0
t ₂	3.0	3.0

FIG. 126C

DESIGNATED POSITION
POSITION DATA OF
POINT B

	B _x	B _y
t ₁	4.0	4.0
t ₂	4.0	4.0

FIG. 126D

DESIGNATED POSITION
POSITION DATA OF
POINT C

	C _x	C _y
t ₁	5.0	3.0
t ₂		

FIG. 126E

DATA OF DESIGNATED POSITION COUNT

	DESIGNATED POSITION COUNT	CHANGE IN INITIAL DESIGNATED POSITION COUNT
t ₁	3	0
t ₂	2	-1

FIG. 126F

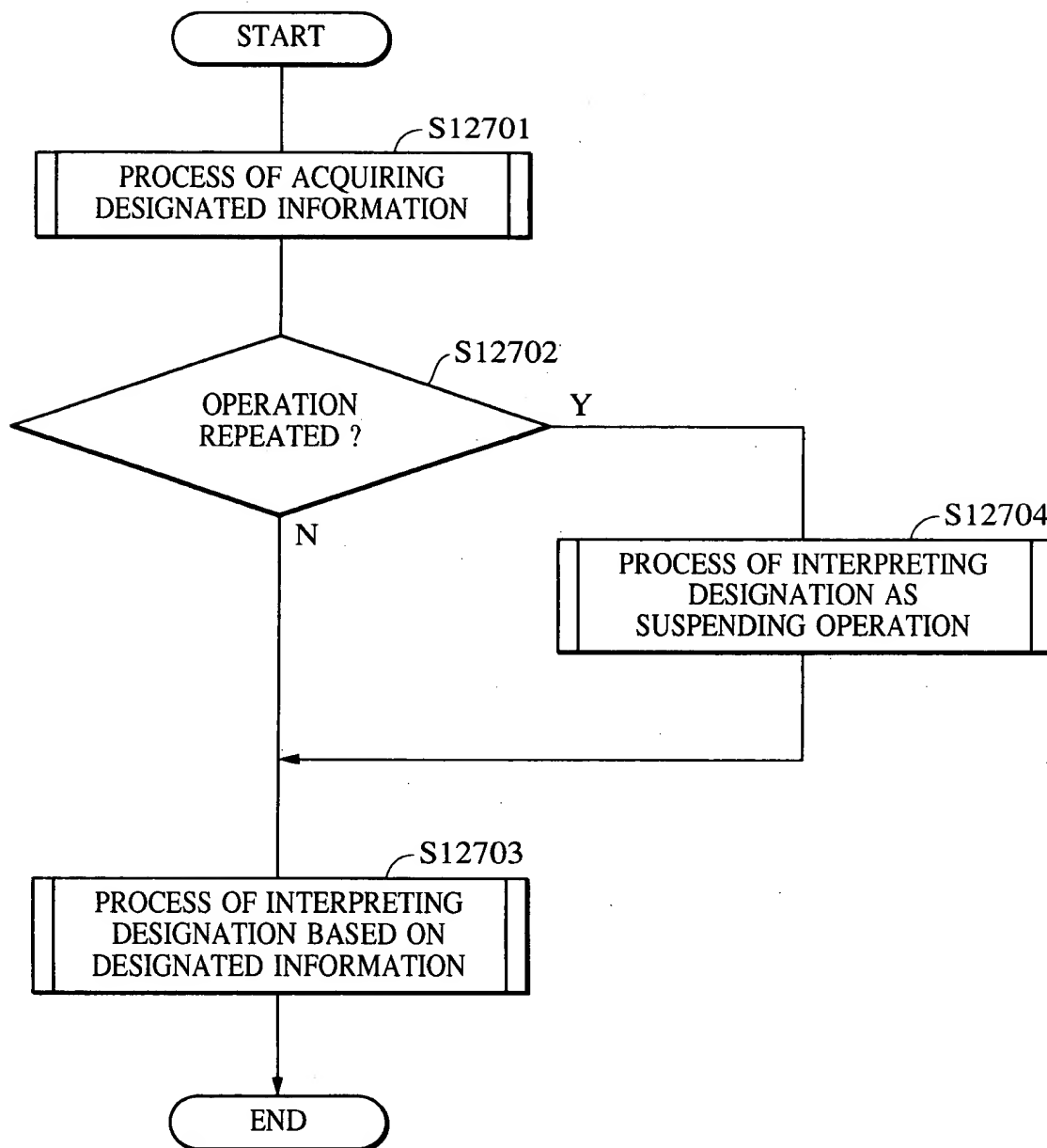


FIG. 127

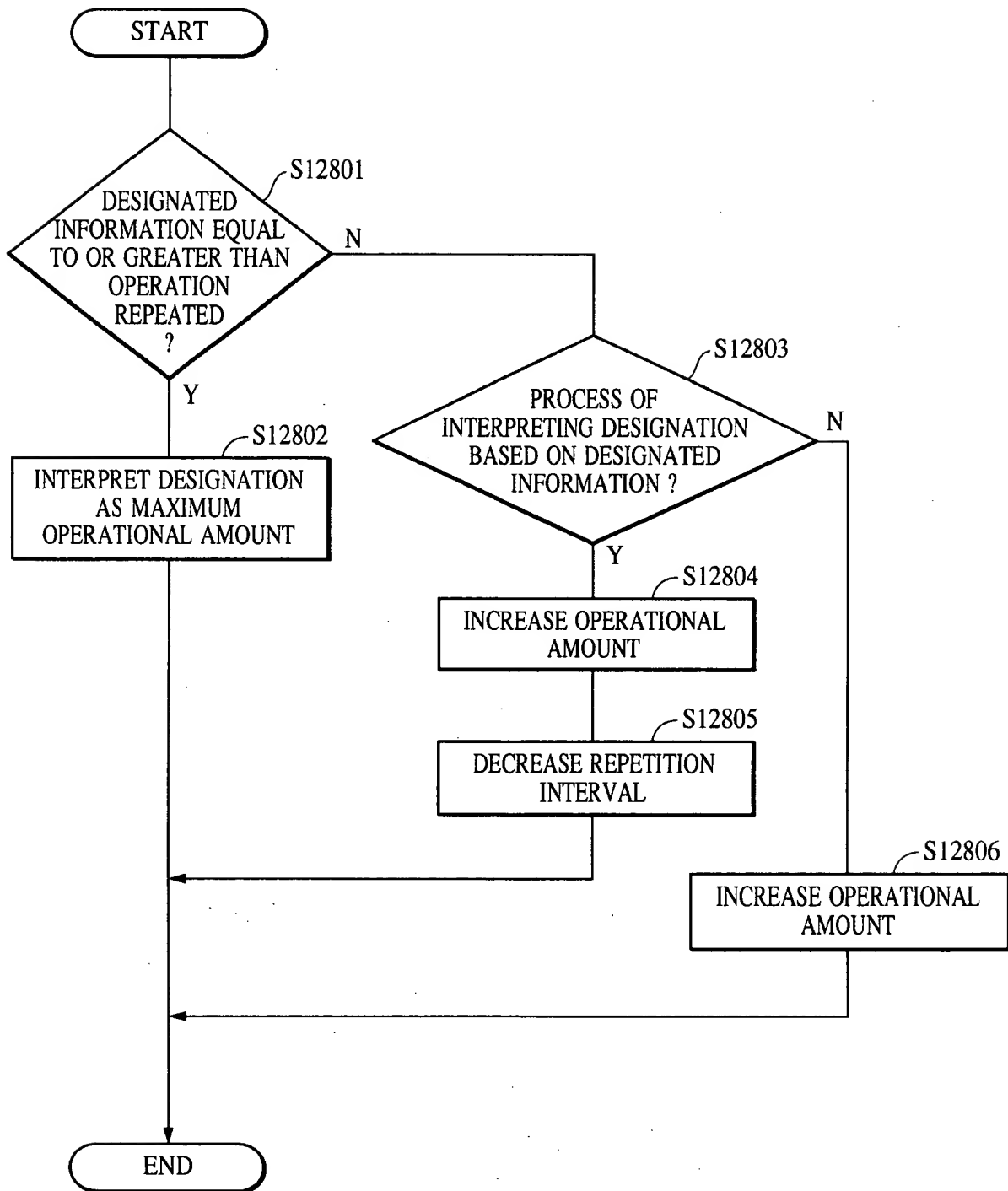


FIG. 128

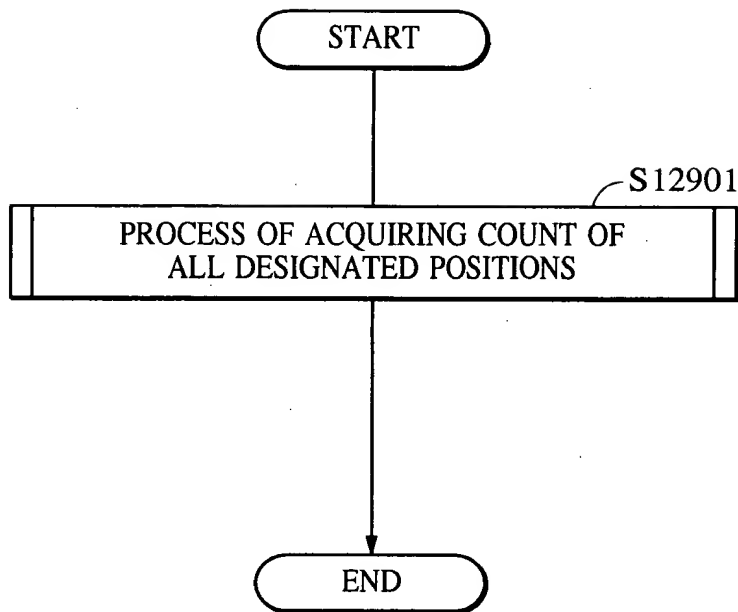


FIG. 129

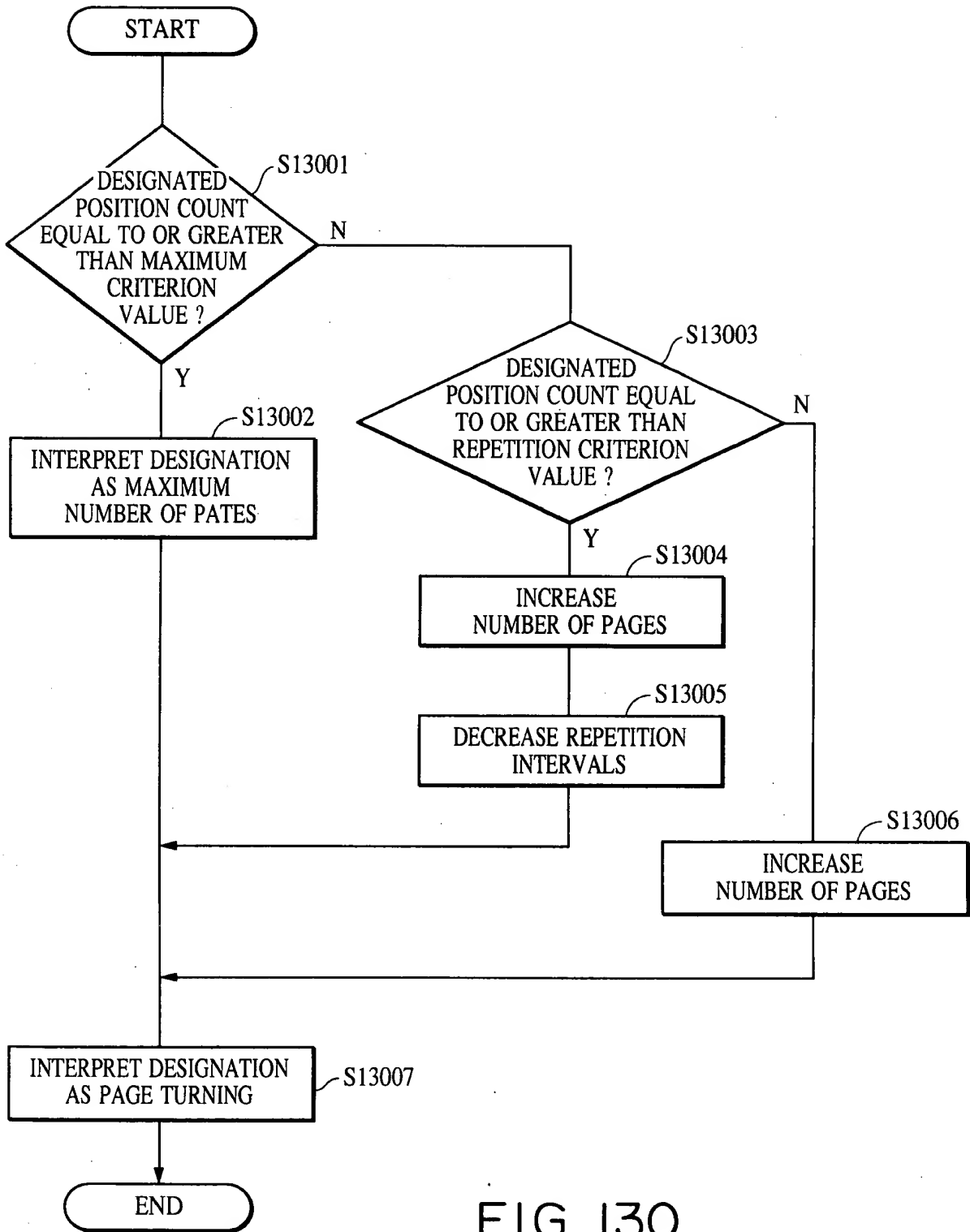
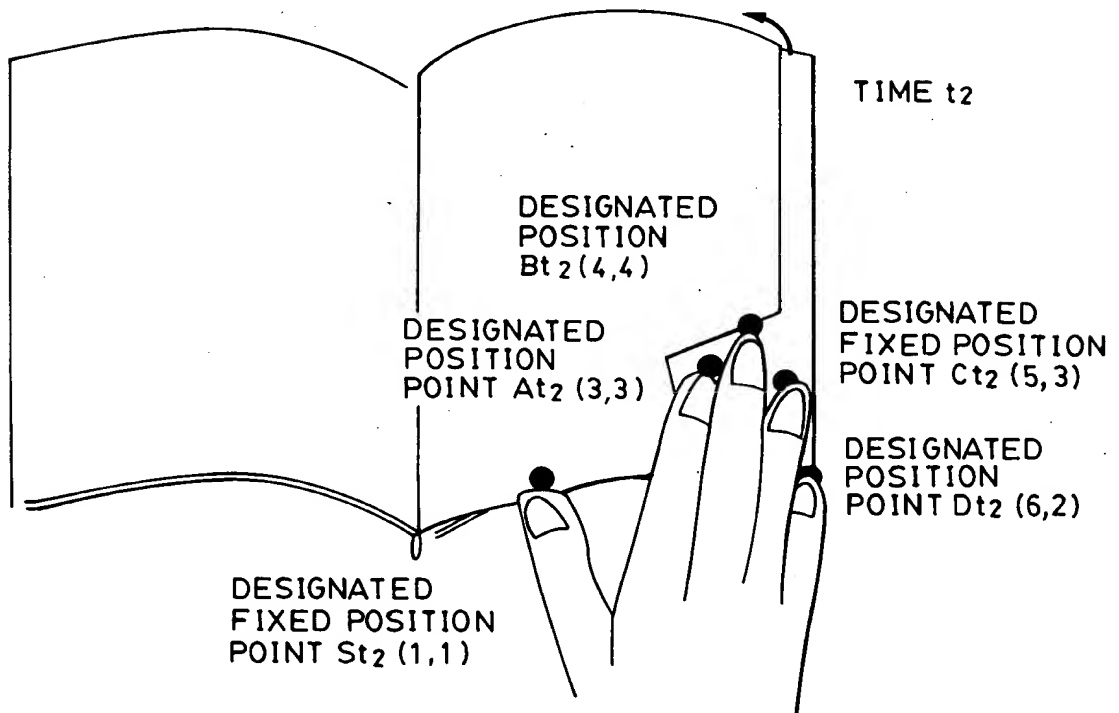
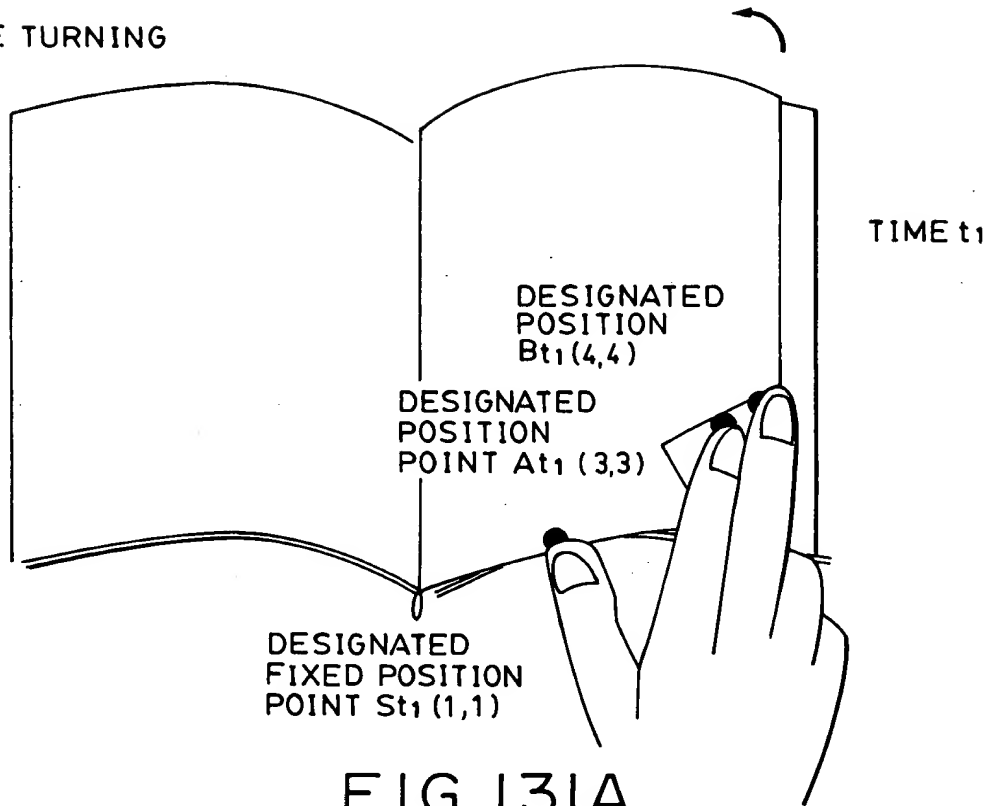


FIG. 130

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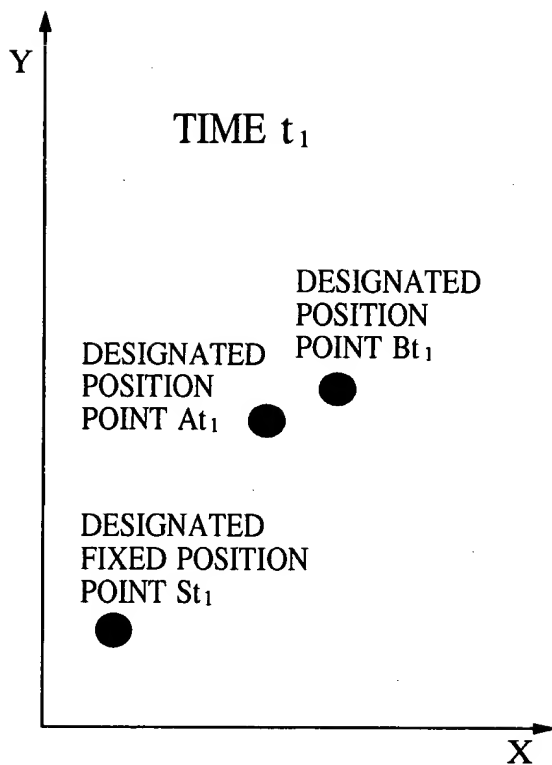


FIG. 132A

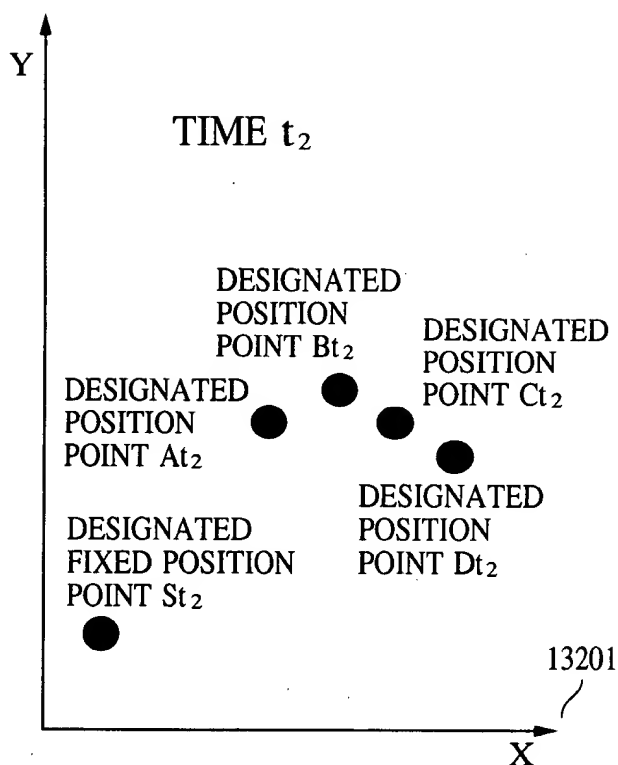


FIG. 132B

DESIGNATED
FIXED POSITION
POSITION DATA
OF POINT S

	S _x	S _y
t ₁	1.0	1.0
t ₂	1.0	1.0

FIG. 132C

DESIGNATED
POSITION
POSITION DATA
OF POINT A

	A _x	A _y
t ₁	3.0	3.0
t ₂	3.0	3.0

FIG. 132D

DESIGNATED
POSITION
POSITION DATA
OF POINT B

	B _x	B _y
t ₁	4.0	4.0
t ₂	4.0	4.0

FIG. 132E

DESIGNATED
POSITION
POSITION DATA
OF POINT C

	C _x	C _y
t ₁		
t ₂	5.0	3.0

FIG. 132F

DESIGNATED
POSITION
POSITION DATA
OF POINT D

	D _x	D _y
t ₁		
t ₂	6.0	2.0

FIG. 132G

13202

DATA OF DESIGNATED POSITION COUNT

	INCREASE IN NUMBER	TOTAL NUMBER
t ₁	2	3
t ₂	2	5

FIG. 132H

13203

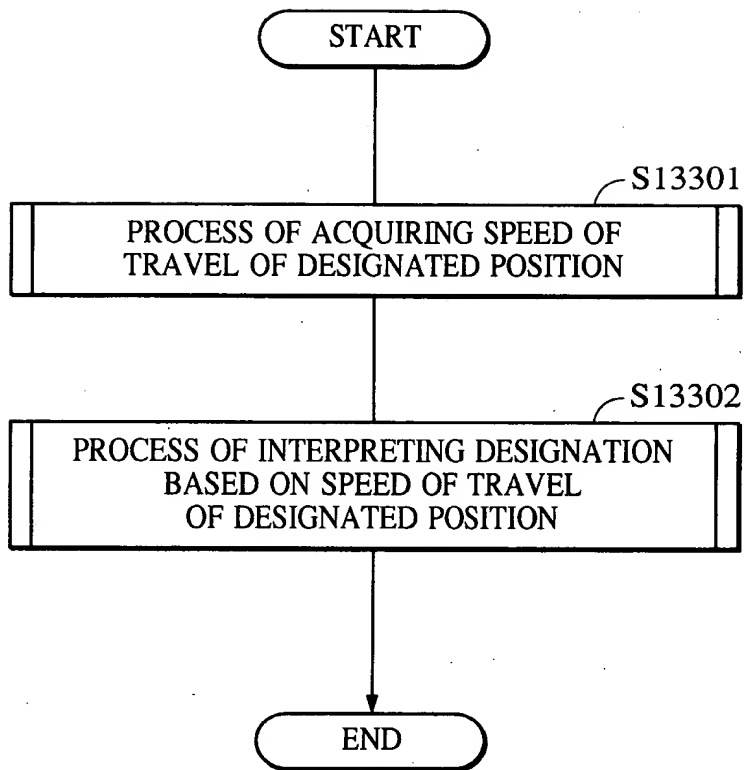


FIG. 133

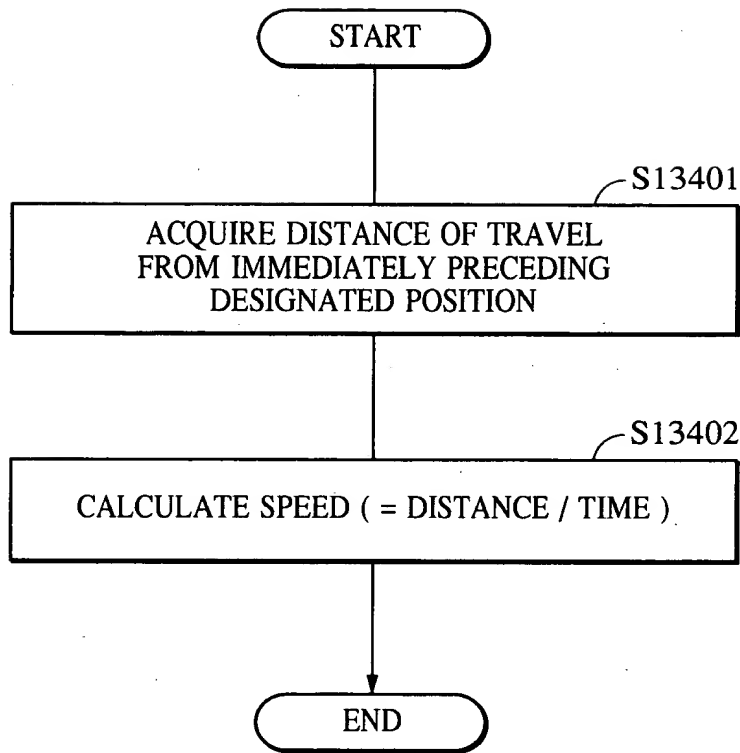


FIG. 134

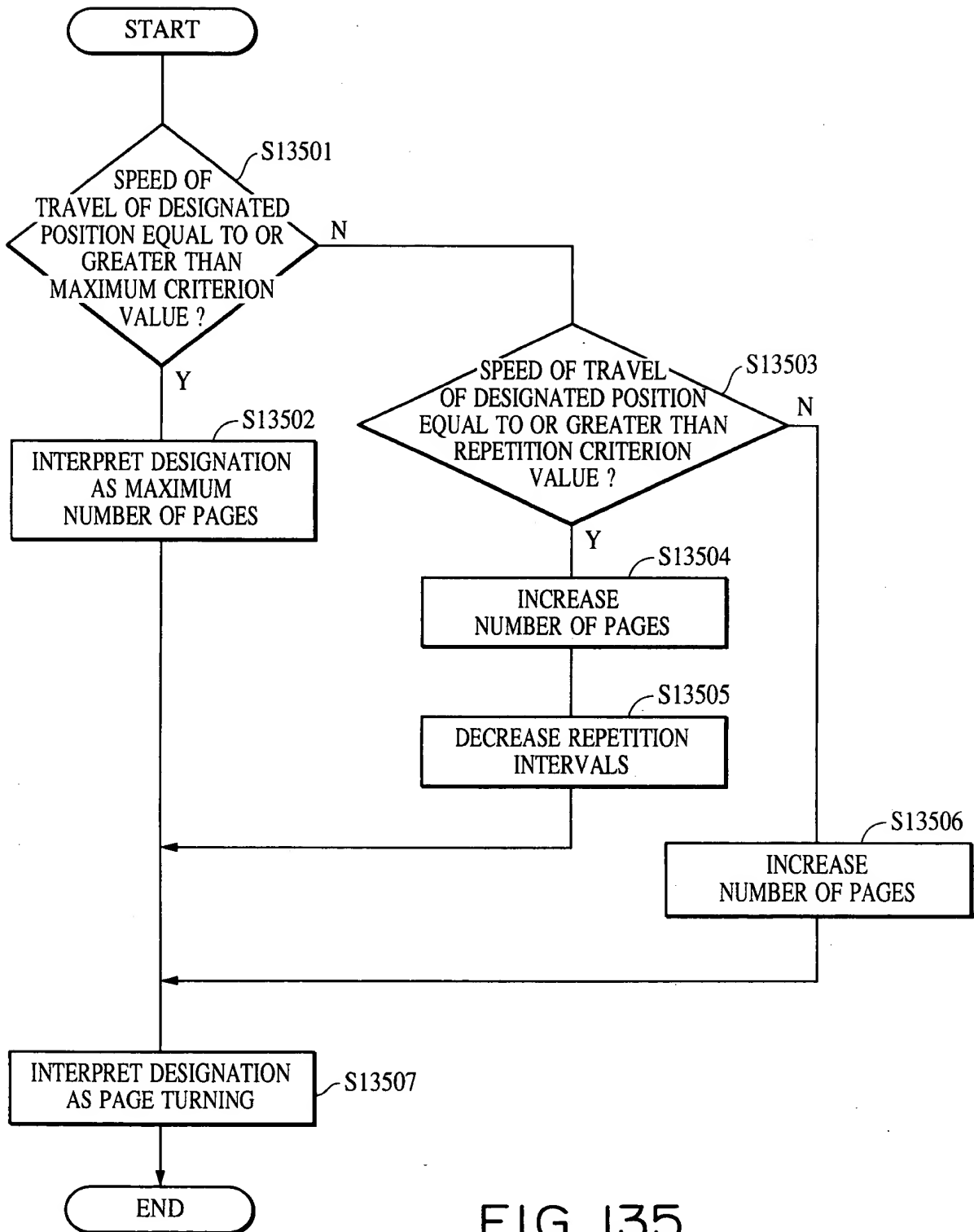
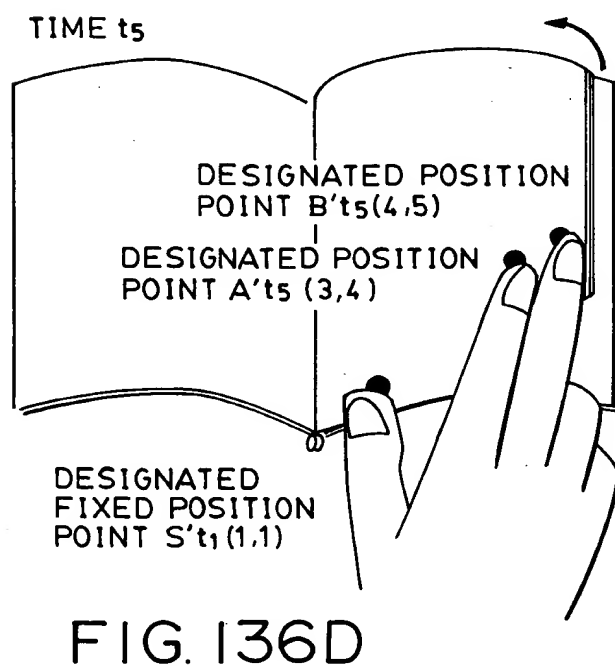
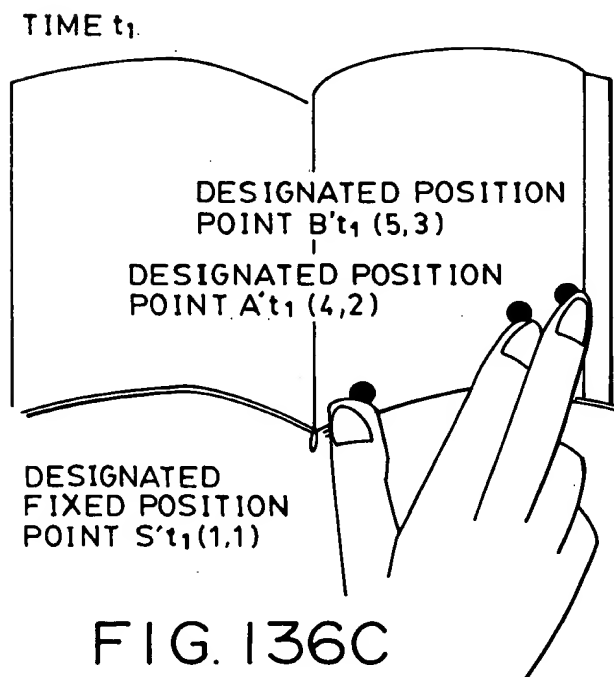
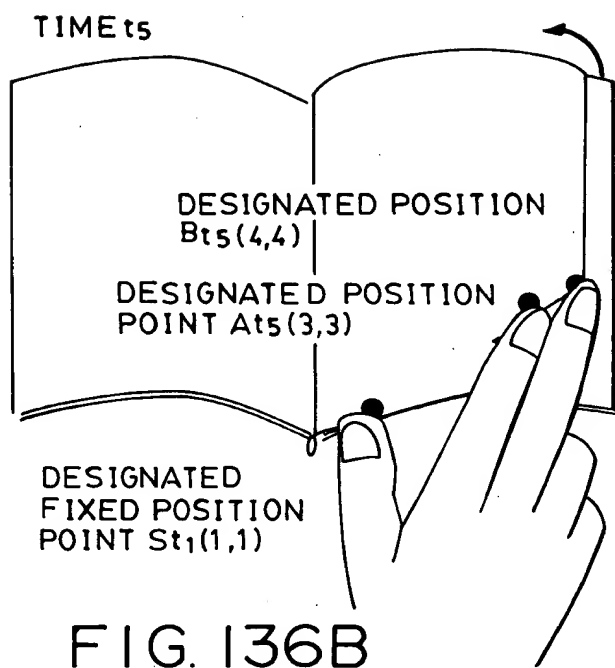
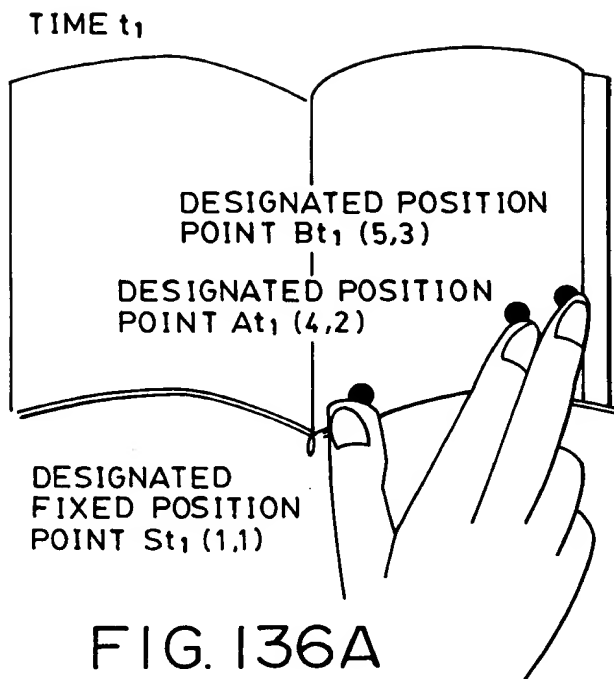


FIG. 135

PAGE TURNING



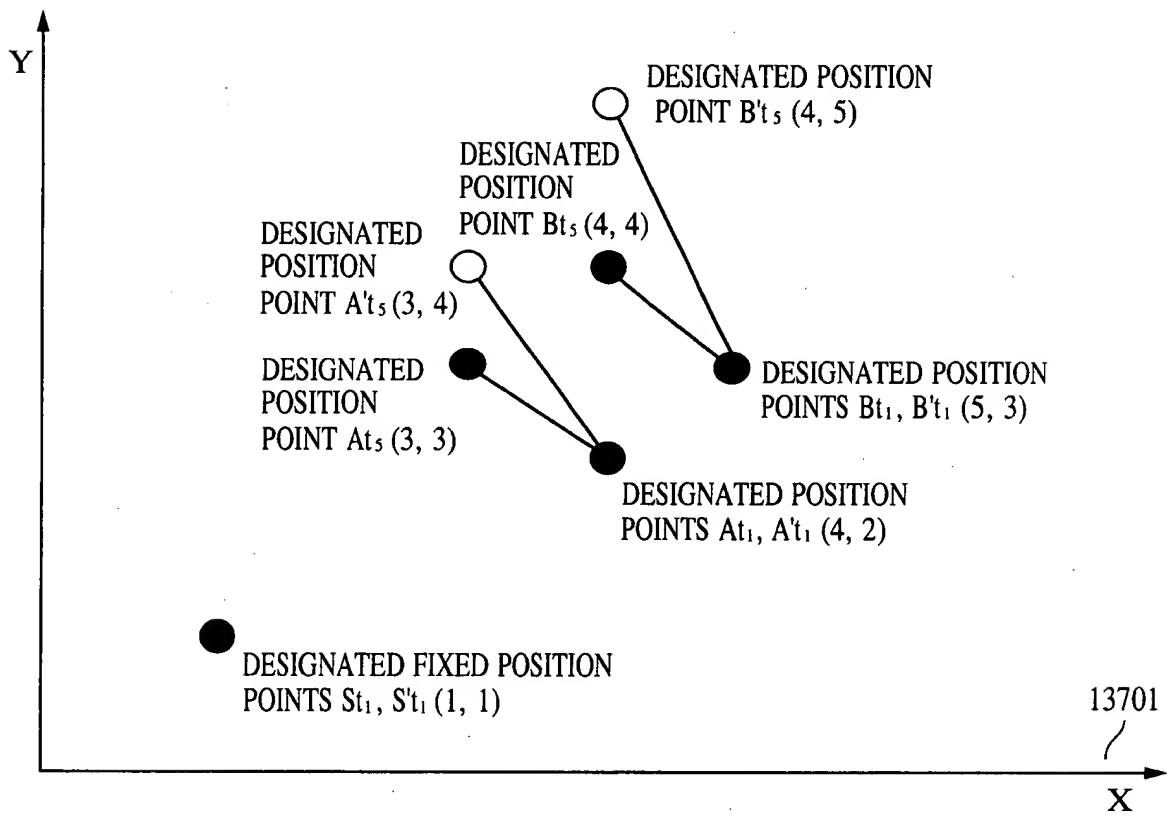


FIG. 137A

DESIGNATED FIXED POSITION POSITION DATA OF POINT S	DESIGNATED POSITION POSITION DATA OF POINT A	DESIGNATED POSITION POSITION DATA OF POINT B	DESIGNATED POSITION POSITION DATA OF POINT A'	DESIGNATED POSITION POSITION DATA OF POINT B'
S_x S_y	A_x A_y	B_x B_y	A'_x A'_y	B'_x B'_y
t_1 1.0 1.0	t_1 4.0 2.0	t_1 5.0 3.0	t_1 4.0 2.0	t_1 5.0 3.0
t_2 1.0 1.0	t_2 3.8 2.2	t_2 4.8 3.2	t_2 3.8 2.4	t_2 4.8 3.4
t_3 1.0 1.0	t_3 3.6 2.4	t_3 4.6 3.4	t_3 3.6 2.8	t_3 4.6 3.8
t_4 1.0 1.0	t_4 3.4 2.6	t_4 4.4 3.6	t_4 3.4 3.2	t_4 4.4 4.2
t_5 1.0 1.0	t_5 3.0 3.0	t_5 4.0 4.0	t_5 3.0 4.0	t_5 4.0 5.0

FIG. 137B FIG. 137C FIG. 137D FIG. 137E FIG. 137F

DATA OF SPEED OF TRAVEL OF DESIGNATED POSITION

SPEED OF POINT A	RATE OF INCREASE OF SPEED OF POINT A	SPEED OF POINT B	RATE OF INCREASE OF SPEED OF POINT B	SPEED OF POINT A'	RATE OF INCREASE OF SPEED OF POINT A'	SPEED OF POINT B'	RATE OF INCREASE OF SPEED OF POINT B'
t_1 0.000		0.000	0.0	0.000		0.000	
t_2 0.283		0.283		0.447		0.447	
t_3 0.283	1.00	0.283	1.00	0.447	1.00	0.447	1.00
t_4 0.283	1.00	0.283	1.00	0.447	1.00	0.447	1.00
t_5 0.354	1.25	0.283	1.00	0.559	1.25	0.559	1.25

FIG. 137G

FIG. 138

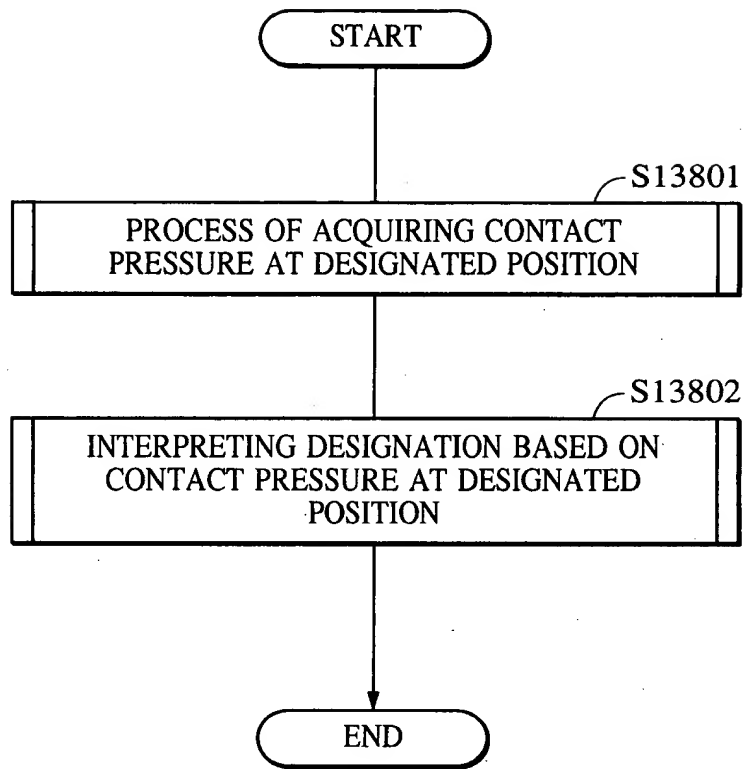


FIG. 138

FIG. 139

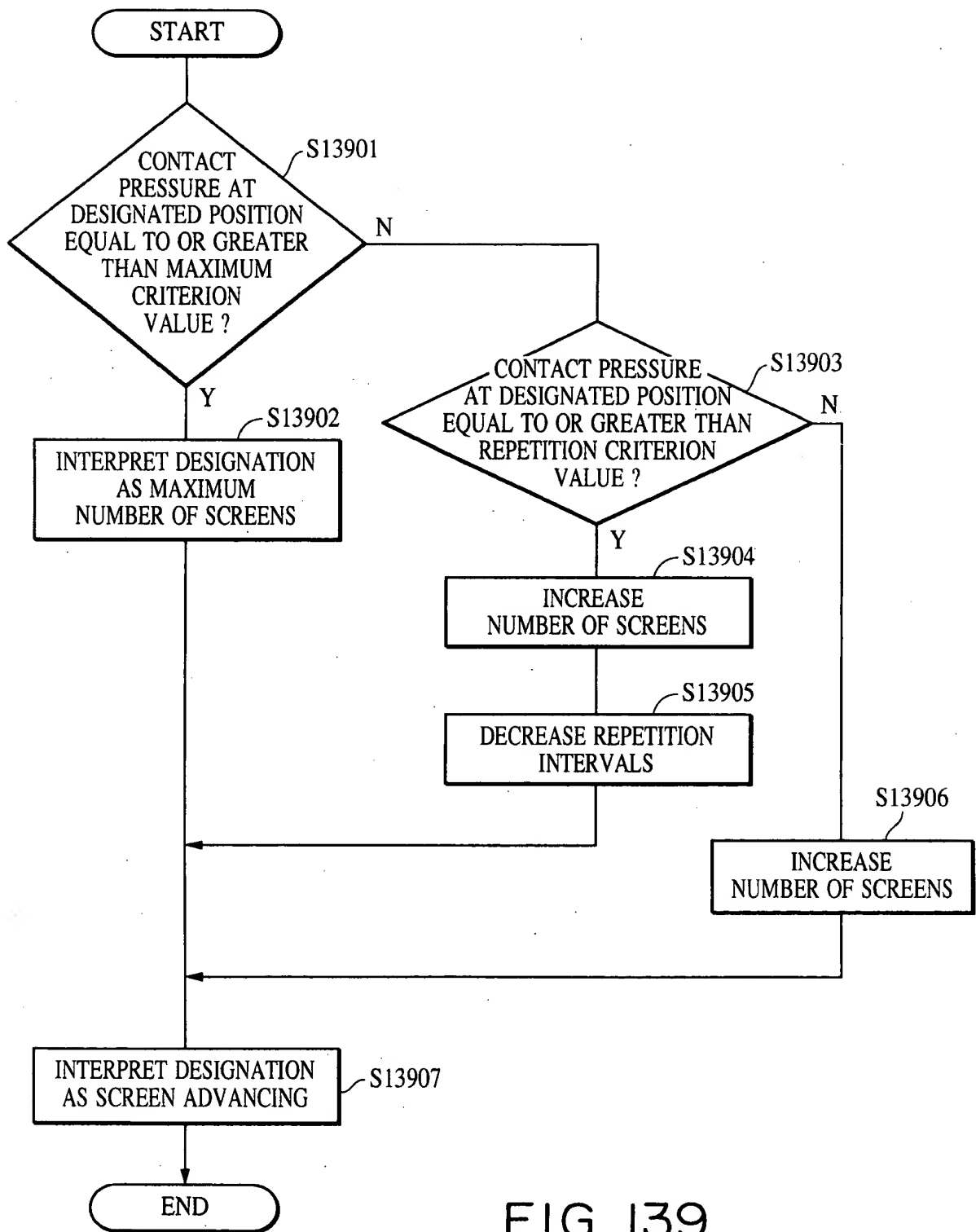


FIG. 139

SCREEN SHIFTING

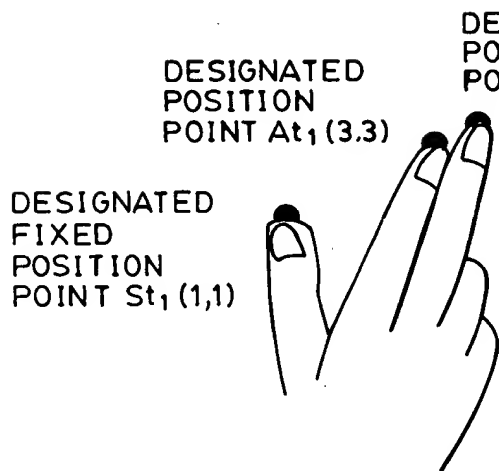


FIG. 140A

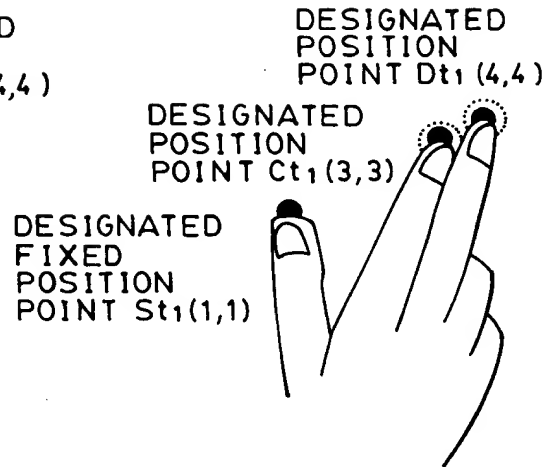


FIG. 140C

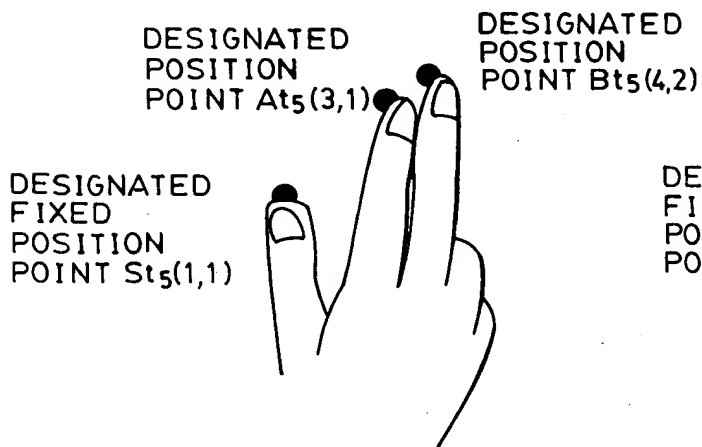


FIG. 140B

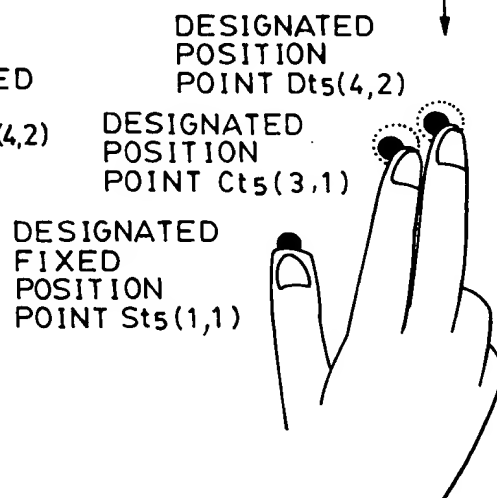


FIG. 140D

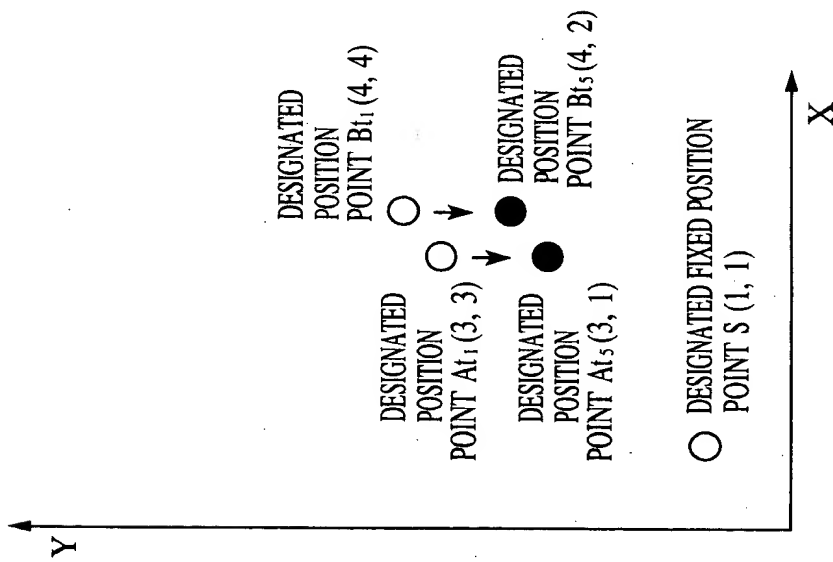


FIG. 14IA

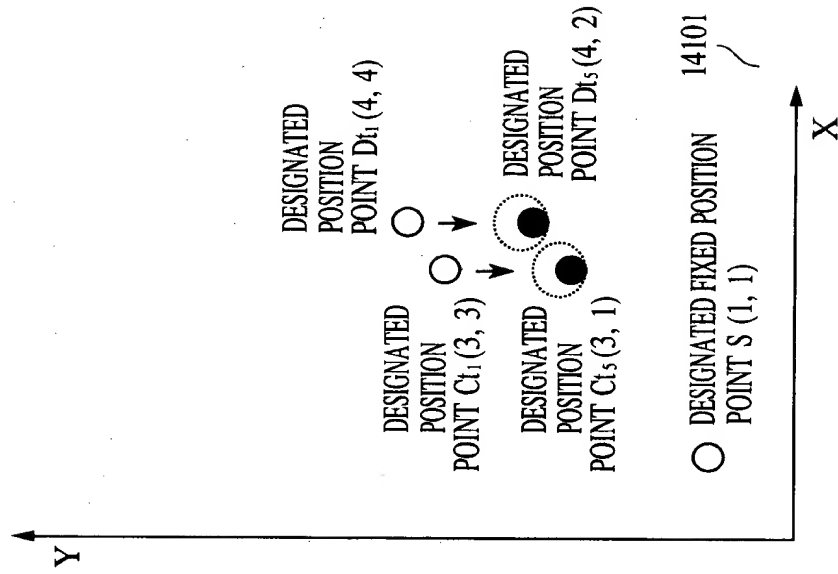


FIG. 14IB

DESIGNATED FIXED POSITION POSITION DATA OF POINT S	S _x	S _y
t ₁	1.0	1.0
t ₂	1.0	1.0
t ₃	1.0	1.0
t ₄	1.0	1.0
t ₅	1.0	1.0

DESIGNATED POSITION POSITION DATA OF POINT A	A _x	A _y
t ₁	3.0	3.0
t ₂	3.0	2.6
t ₃	3.0	2.2
t ₄	3.0	1.8
t ₅	3.0	1.0

DESIGNATED POSITION POSITION DATA OF POINT B	B _x	B _y
t ₁	4.0	4.0
t ₂	4.0	3.6
t ₃	4.0	3.2
t ₄	4.0	2.8
t ₅	4.0	2.0

DESIGNATED POSITION POSITION DATA OF POINT C	C _x	C _y
t ₁	3.0	3.0
t ₂	3.0	2.6
t ₃	3.0	2.2
t ₄	3.0	1.8
t ₅	3.0	1.0

DESIGNATED POSITION POSITION DATA OF POINT D	D _x	D _y
t ₁	4.0	4.0
t ₂	4.0	3.6
t ₃	4.0	3.2
t ₄	4.0	2.8
t ₅	4.0	2.0

14102

FIG. 14C FIG. 14D FIG. 14E FIG. 14F FIG. 14G

DATA OF CONTACT PRESSURE AT DESIGNATED POSITION

	CONTACT PRESSURE AT POINT S	CONTACT PRESSURE AT POINT A	CONTACT PRESSURE AT POINT B	CONTACT PRESSURE AT POINT C	CONTACT PRESSURE AT POINT D
t ₁	100	100	100	100	100
t ₂	105	105	105	140	140
t ₃	110	110	110	160	160
t ₄	105	105	105	190	190
t ₅	100	100	100	210	210

14103

FIG. 14H

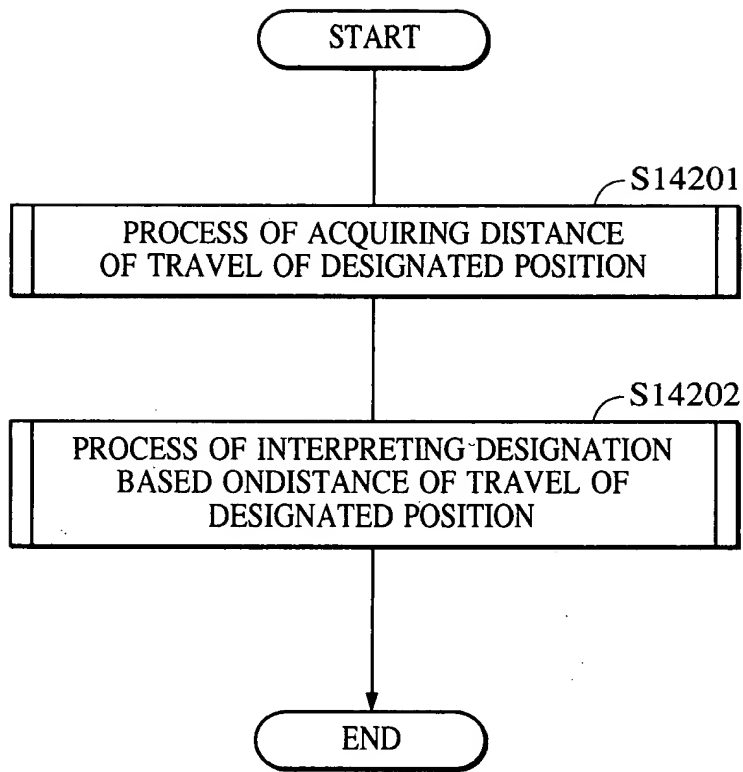


FIG. 142

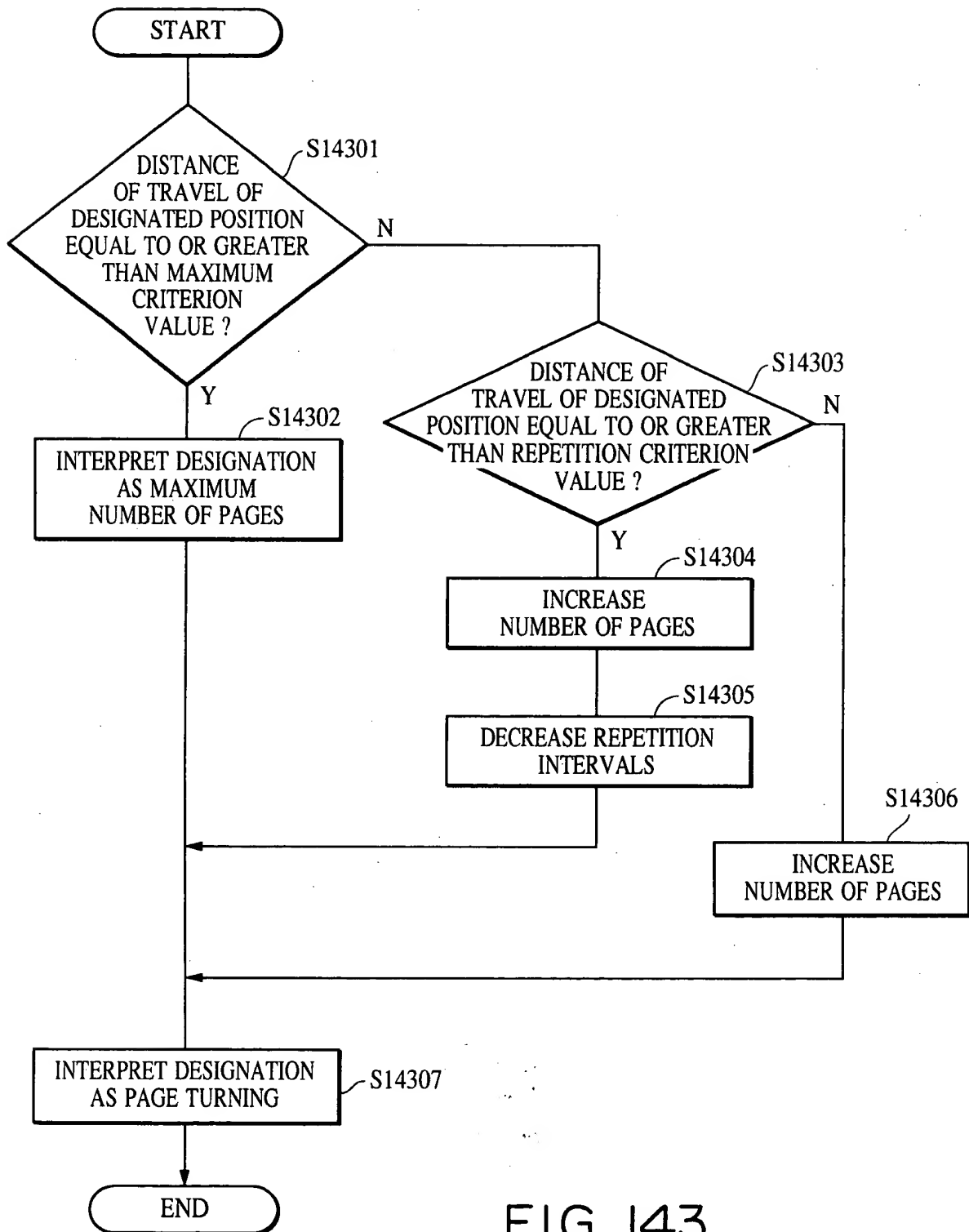
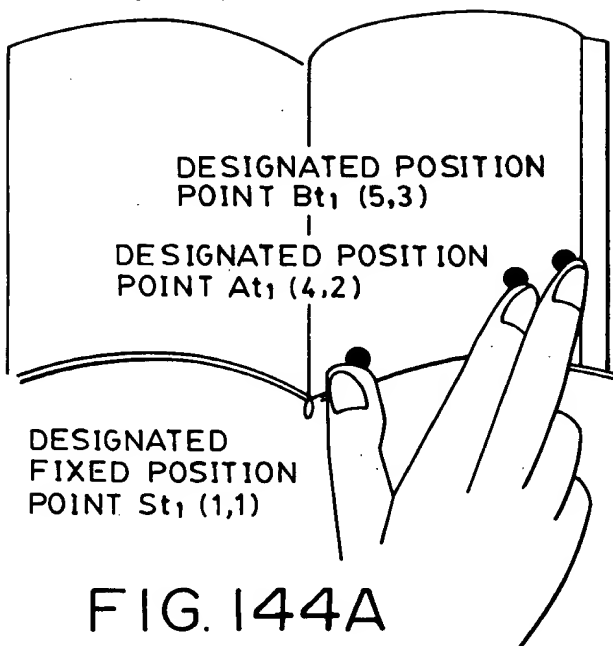


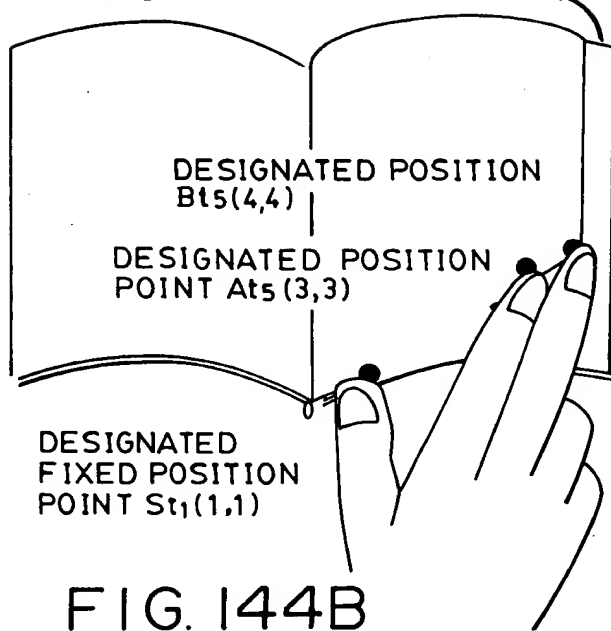
FIG. 143

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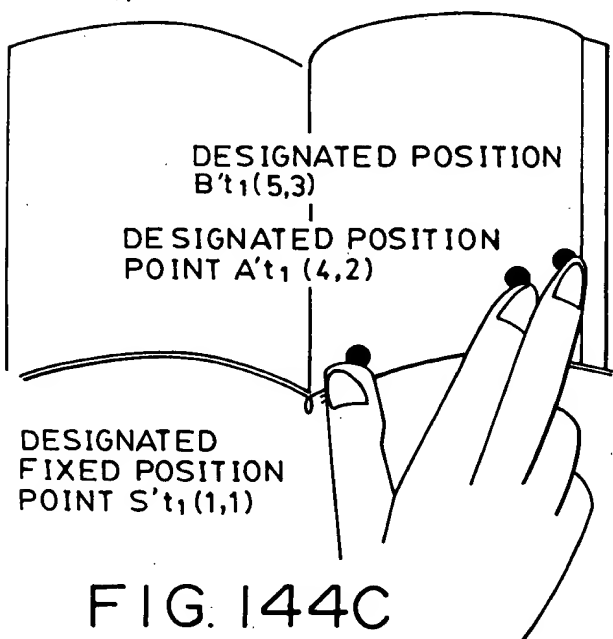
TIME t_1



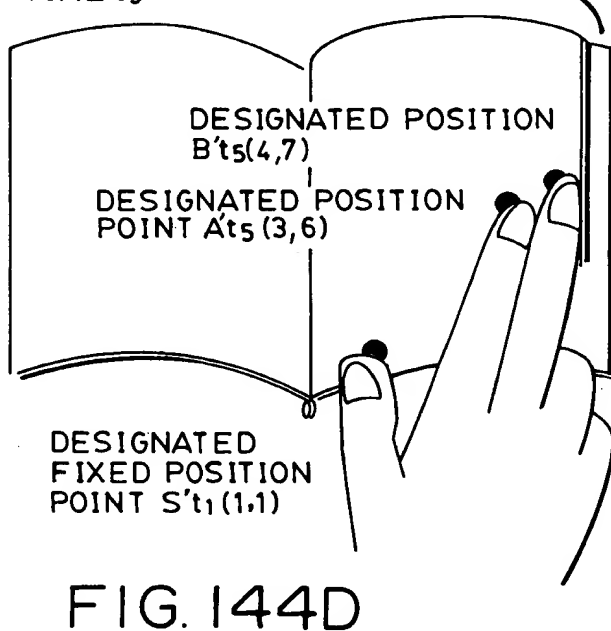
TIME t_5



TIME t_1



TIME t_5



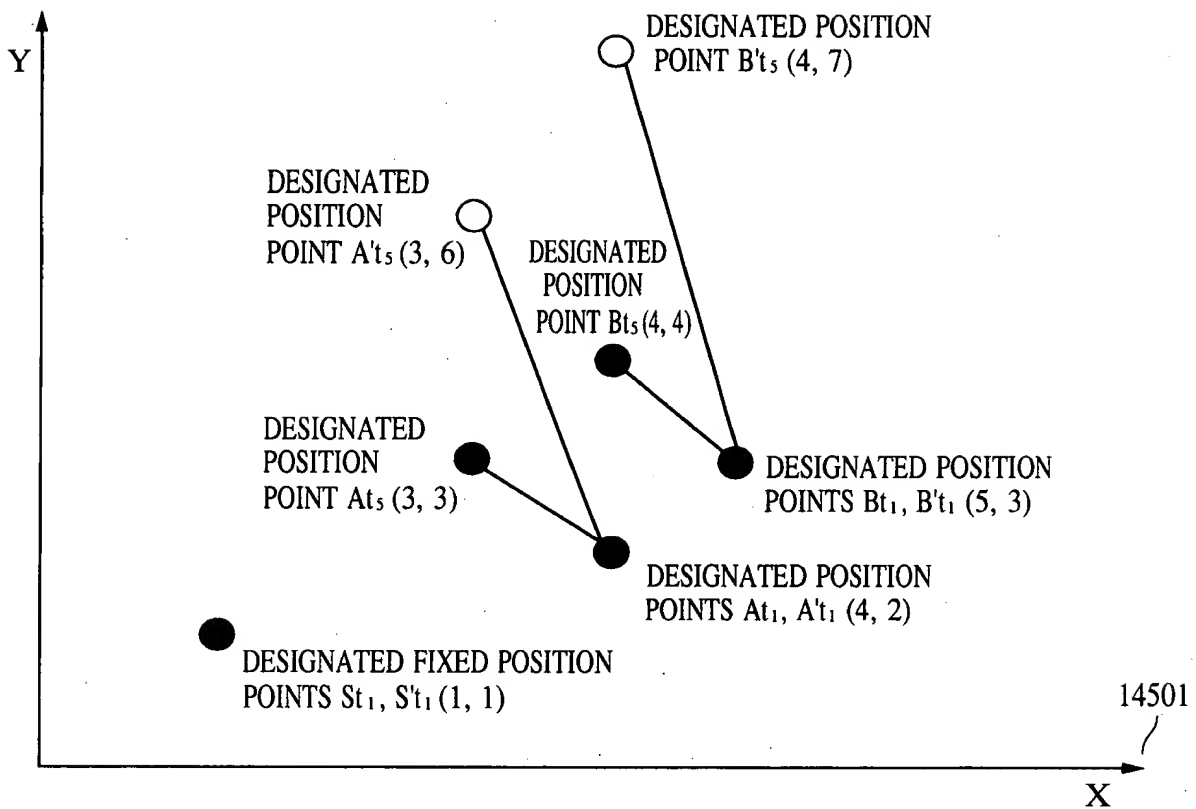


FIG. 145A

DESIGNATED FIXED POSITION POSITION DATA OF POINT S	S _x	S _y
t ₁	1.0	1.0
t ₂	1.0	1.0
t ₃	1.0	1.0
t ₄	1.0	1.0
t ₅	1.0	1.0

DESIGNATED POSITION POSITION DATA OF POINT A	A _x	A _y
t ₁	4.0	2.0
t ₂	3.8	2.2
t ₃	3.6	2.4
t ₄	3.4	2.6
t ₅	3.0	3.0

DESIGNATED POSITION POSITION DATA OF POINT B	B _x	B _y
t ₁	5.0	3.0
t ₂	4.8	3.2
t ₃	4.6	3.4
t ₄	4.4	3.6
t ₅	4.0	4.0

DESIGNATED POSITION POSITION DATA OF POINT A'	A' _x	A' _y
t ₁	4.0	2.0
t ₂	3.8	2.8
t ₃	3.6	3.6
t ₄	3.4	4.4
t ₅	3.0	6.0

DESIGNATED POSITION POSITION DATA OF POINT B'	B' _x	B' _y
t ₁	5.0	3.0
t ₂	4.8	3.8
t ₃	4.6	4.6
t ₄	4.4	5.4
t ₅	4.0	7.0

FIG. 145B FIG. 145C FIG. 145D FIG. 145E FIG. 145F

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DATA OF DISTANCE OF TRAVEL OF DESIGNATED POSITION

	TRAVEL OF POINT S	TRAVEL OF POINT A	TRAVEL OF POINT B	TRAVEL OF POINT A'	TRAVEL OF POINT B'
t ₁	0	0.000	0.000	0.000	0.000
t ₂	0	0.283	0.283	0.825	0.825
t ₃	0	0.566	0.566	1.649	1.649
t ₄	0	0.849	0.849	2.474	2.474
t ₅	0	1.414	1.131	4.123	4.123

FIG. 145G

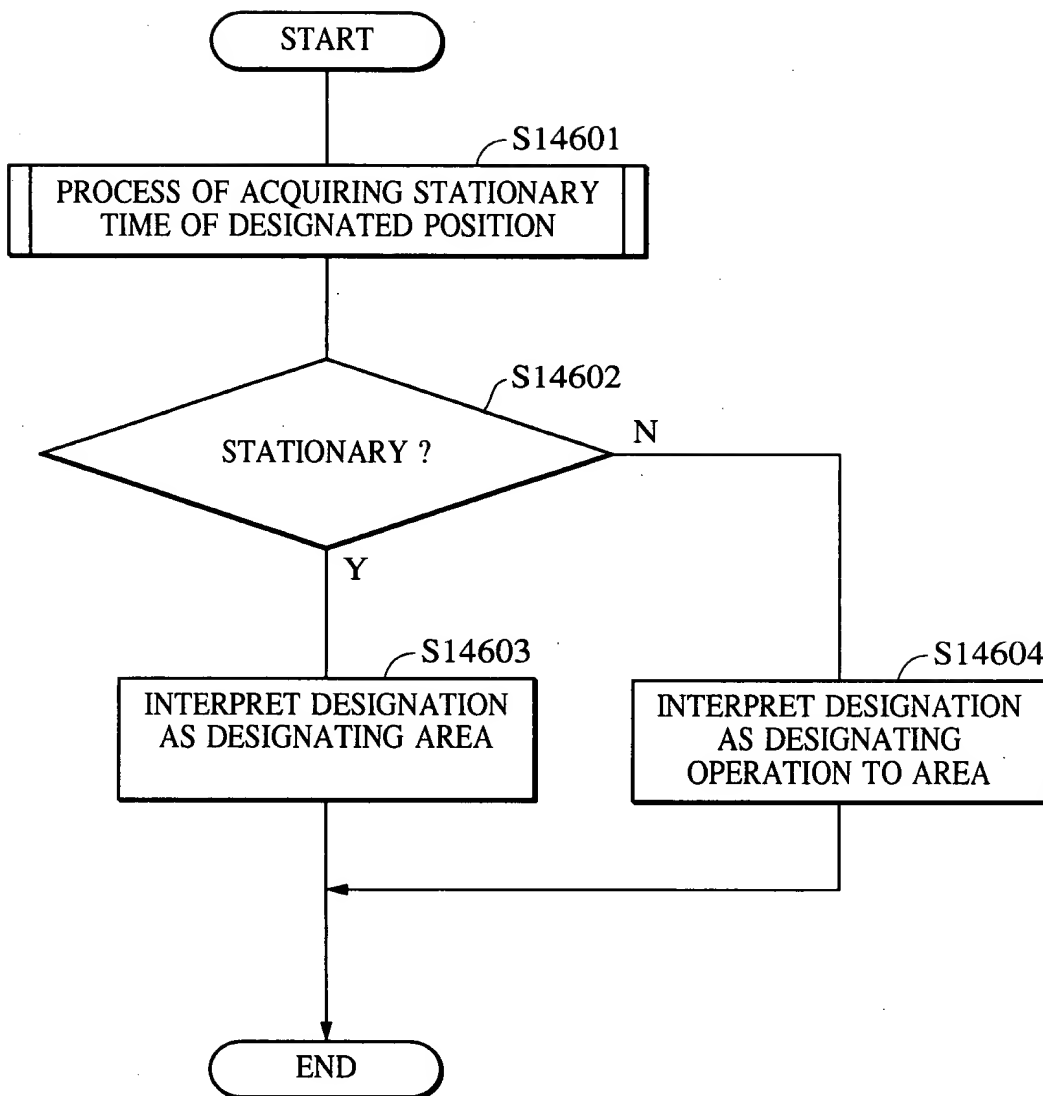


FIG. 146

DESIGNATING
AREA

DESIGNATED
POSITION
POINT A_{t_1}

DESIGNATED
POSITION
POINT B_{t_1}

TIME t_1

In a system for preparing a text by using a knowledge base, knowledge relating to input information is first retrieved from the knowledge base. Then, a plurality of kinds of information used as elements of text to be generated is selected from the input information and the retrieved information relating thereto. Subsequently, a describing order, in which the selected elements of the text are described, is determined. The output is generated on the basis of the selected elements of the text and the determined describing order.

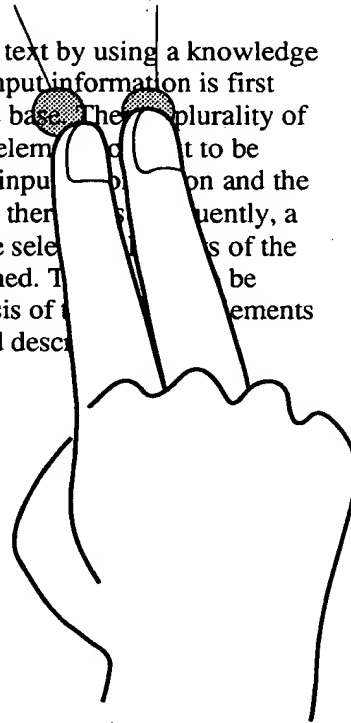


FIG. 147A

DESIGNATED
POSITION
POINT A_{t_5}

DESIGNATED
POSITION
POINT B_{t_5}

TIME t_5

In a system for preparing a text by using a knowledge base, knowledge relating to input information is first retrieved from the knowledge base. Then, a plurality of kinds of information used as elements of text to be generated is selected from the input information and the retrieved information relating thereto. Subsequently, a describing order, in which the selected elements of the text are described, is determined. The output is generated on the basis of the selected elements of the text and the determined describing order.

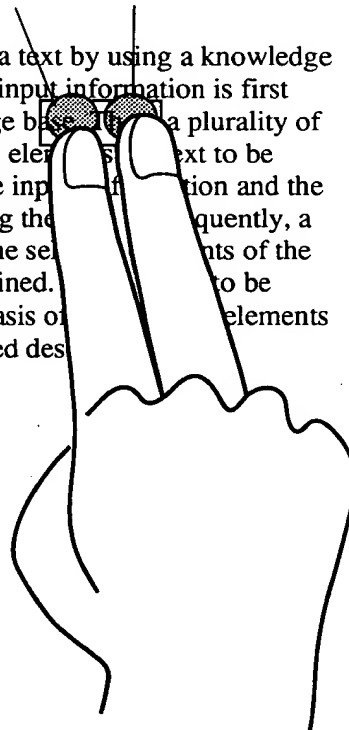


FIG. 147B

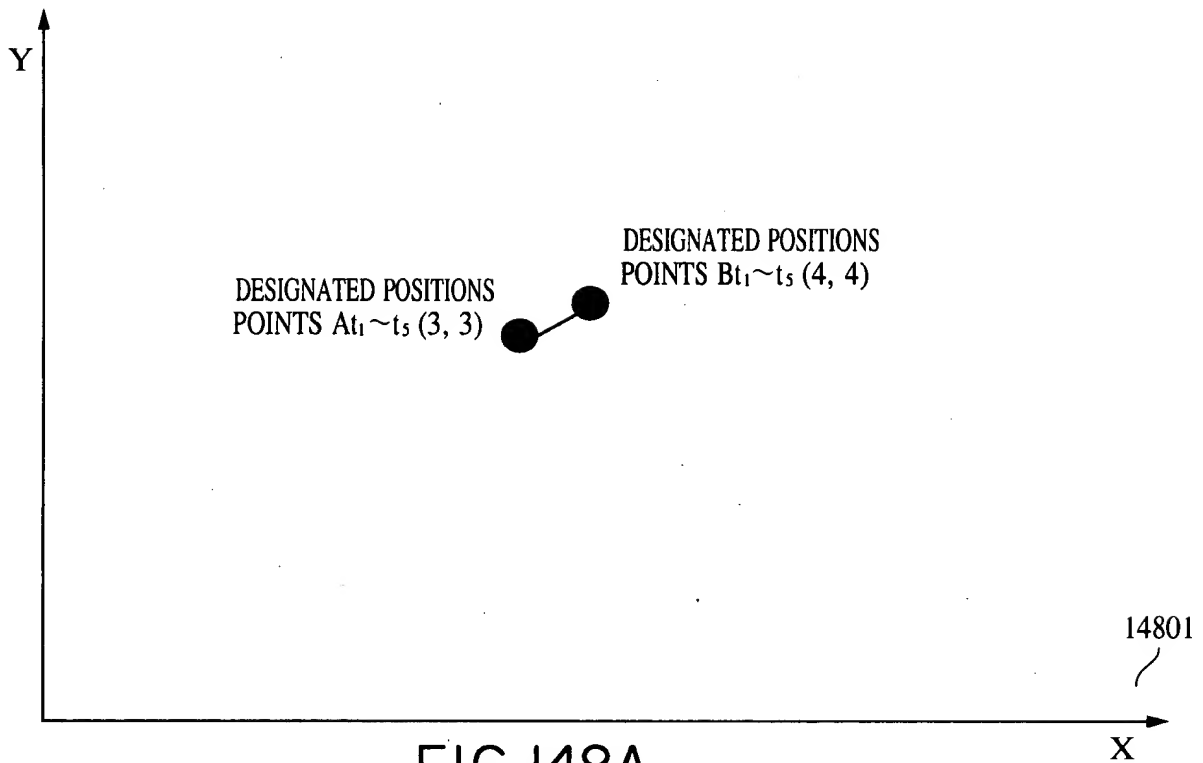


FIG. 148A

DESIGNATED
FIXED POSITION
POSITION DATA
OF POINT A

	A_x	A_y
t_1	3.0	3.0
t_2	3.0	3.0
t_3	3.0	3.0
t_4	3.0	3.0
t_5	3.0	3.0

FIG. 148B

DESIGNATED
FIXED POSITION
POSITION DATA
OF POINT B

	B_x	B_y
t_1	4.0	4.0
t_2	4.0	4.0
t_3	4.0	4.0
t_4	4.0	4.0
t_5	4.0	4.0

FIG. 148C

14802

DATA OF TRAVEL OF DESIGNATED POSITION

	TRAVEL OF POINT A	TRAVEL OF POINT B
t_1	0.000	0.000
t_2	0.000	0.000
t_3	0.000	0.000
t_4	0.000	0.000
t_5	0.000	0.000

14803

FIG. 148D

EXPANSION
OPERATION

DESIGNATED
POSITION
POINT A_{t_5}

DESIGNATED
POSITION
POINT B_{t_5}

TIME t_5

In a system for preparing a text by using a knowledge base, knowledge relating to input information is first retrieved from the knowledge base. A plurality of kinds of information used as elements to be generated is selected from the input information and the retrieved information relating thereto. Subsequently, a describing order, in which the selected elements of the text are described, is determined. Then, the output is generated on the basis of the selected elements of the text and the determined describing order.

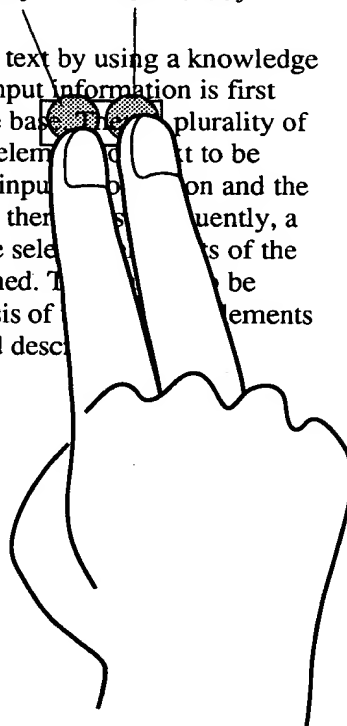


FIG. 149A

14901

DESIGNATED POSITION
POINT A_{t_6}

DESIGNATED POSITION
POINT B_{t_6}

TIME t_6

In a system for preparing a text by using a knowledge base, knowledge relating to input information is first

retrieved from the knowledge base. A plurality of kinds of information used as elements to be generated is selected from the input information and the retrieved information relating thereto. Subsequently, a describing order, in which the selected elements of the text are described, is determined. Then, the output is generated on the basis of the selected elements of the text and the determined describing order.

Then

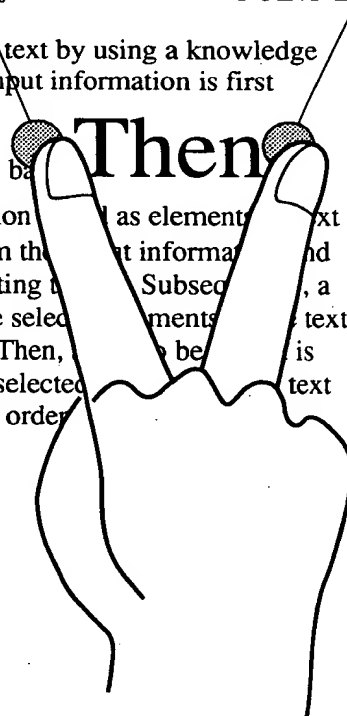


FIG. 149B

14902

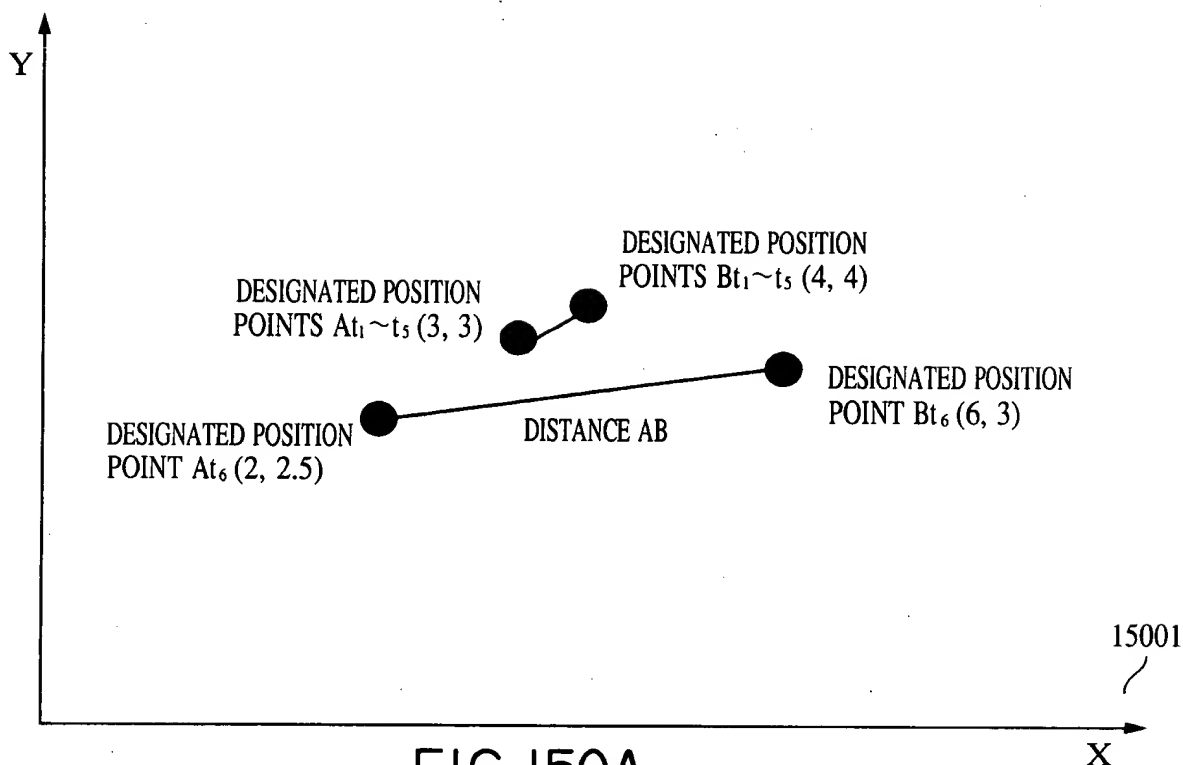


FIG. 150A

DESIGNATED
MOVING POSITION
POSITION DATA
OF POINT A

	A _x	A _y
t ₁	3.0	3.0
t ₂	3.0	3.0
t ₃	3.0	3.0
t ₄	3.0	3.0
t ₅	2.0	2.5

FIG. 150B

DESIGNATED
POSITION
POSITION DATA
OF POINT B

	B _x	B _y
t ₁	4.0	4.0
t ₂	4.0	4.0
t ₃	4.0	4.0
t ₄	4.0	4.0
t ₅	6.0	3.0

FIG. 150C

15002

DATA OF TRAVEL OF DESIGNATED POSITION

	TRAVEL OF POINT A	TRAVEL OF POINT B	DISTANCE AB	DISTANCE CHANGE RATE
t ₁	0.000	0.000	1.414	100%
t ₂	0.000	0.000	1.414	100%
t ₃	0.000	0.000	1.414	100%
t ₄	0.000	0.000	1.414	100%
t ₅	1.118	2.236	4.031	285%

15003

FIG. 150D